MATHEMATICS, ENGLISH LANGUAGE ARTS AND SCIENCE • GRADES 9-12



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Purpose of the Support for WV Alternate Academic Achievement Standards Document

The West Virginia Alternate Academic Achievement Standards (WVAAAS) were created by a community of general and special educators. In response to the new standards, a companion document has been created to ensure all students are provided a pathway to grade level standards, and to provide teachers with an understanding of how rigorous expectations would look in the classroom. The purpose of this document is to provide teachers with a resource to support them in identifying various steps with the goal of reaching grade level alternate standards for ELA, math, and science. This document was created to provide guidance for teachers in designing instruction and developing Individualized Education Programs (IEP) based on individual student needs.

The need for this document was birthed following the development of Policy 2520.16 the WVAAAS which went into effect on July 1, 2018. The WVAAAS were developed with the goal of ensuring that students with significant cognitive disabilities achieve increasingly high academic outcomes and leave high school ready for postsecondary options. Instruction in the alternate standards should occur with an eye towards real-world application.

The WVAAAS are linked to the West Virginia College and Career Readiness Standards (WVCCRS), meeting the first Every Student Succeeds Act (ESSA) requirement for a State-defined alternate diploma. ESSA and the Individuals with Disabilities Education Act (IDEA) require all students, including students with significant cognitive disabilities, to have the opportunity to learn academic content based on grade-level standards.

This document has been formatted to include the WVAAAS along with a three-step progression. Step 3 is the closest to the alternate standard and Step 1 is the farthest from the alternate standard. Each progression addresses various levels of standards appropriate for students with significant cognitive disabilities. A student may be at varying steps depending on the content standard addressed; therefore, no student is set to a specific step across all standards. For example, within a content area a student may be at Step 1 for one standard and at Step 3 for another.

It is essential to remember the core belief that all students, no matter how significant their disabilities, have the capacity to learn. Although the challenge of a significant disability may be a barrier to the traditional means of demonstrating knowledge, it is imperative to implement supports and strategies that will allow even the students with the greatest need make and communicate progress.

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High School Algebra I, Traditional Pathway

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Relationships between Quantities and Reas	soning with Equations		
Cluster: Reason quantitatively and use units to s	olve problems.		
A.M.A1HS.1 Express quantities to the appropriate precision of measurement (e.g., measure a pencil to the nearest inch).	Accurately measure an item using the appropriate unit of measurement.	Accurately measure items using units (i.e. squares).	Choose the appropriate tool for the measurement of an item.
A.M.1HS.2	Define the terms used to determine dimensions.	Choose the correct term for a specific quantity (e.g. gallons,	Choose the correct term for what is measured by specific tools.(e.g.
Define appropriate quantities for the purpose of descriptive modeling.	determine dimensions.	miles, grams, etc.).	ruler to inches and measuring cup to ounces, etc.)
A.M.A1HS.3	Choose the appropriate unit of	Choose the correct tool to measure	Choose the correct tool for
Choose the appropriate unit of measurement (e.g., determine when to use feet/inches/meter, cups/gallons/liter, ounces/pounds/gram, etc.).	measurement for a specific task.	given items.	measurement (e.g., a ruler, yardstick, measuring cup), given choice(s).
Cluster: Interpret the structure of expressions.			
A.M.A1HS.4	Identify the correct algebraic	Identify the correct symbol for	Identify the correct symbol that
Identify an algebraic expression involving at least one arithmetic operation to represent a real-world problem.	expression with at least one operation to represent a real-world problem.	an operation to use in real-world problem.	represents an operation for a real- world problem.
Cluster: Create equations that describe numbers	or relationships.		
A.M.A1HS.5 Given a real-world problem situation, write, read, and/or solve one-step addition and subtraction equations for an unknown number, with a variable standing for the unknown (e.g., \$8.50 + c = \$12).	Create and solve a one-step algebraic equation for a realworld problem using addition or subtraction.	Solve a one-step algebraic equation for a real-world problem using addition or subtraction.	Choose the correct symbol that represents an operation for a realworld problem.

A.M.A1HS.6 Determine solutions to equations that model real-world problem situations with two unknowns (e.g., given a set of options, find solutions for x + y = \$6.25).	With two unknowns, determine the solution for real-world problems.	With two unknowns, determine the correct equation for a solution to real-world problems.	Determine what is unknown in real-world problems.	
A.M.A1HS.7 Demonstrate an understanding of terms such as "at least" and "fewer than" in solving real-world problems.	Uses the appropriate mathematical symbol, based on the terminology in a problem using equations and inequalities. when solving realworld problems.	Determine the appropriate mathematical symbol to use based on the terminology in real-world problems.	Choose which mathematical symbol to use in real-world problems given choices.	
A.M.A1HS.8	create and solve two-step	Solve a word problem using two-	Recognizes a letter can stand for a	
Solve two-step word problems, represent these problems using formulas with a letter standing for the unknown quantity.	algebraic equations using a letter sfor the unknown quantity, when given a word problem.	step algebraic equations.	quantity.	
Cluster: Understand solving equations as a proce	ess of reasoning and explaining the re	rasoning.		
A.M.A1HS.9 Demonstrate each step in solving a one or two-step equation.	Write each step needed in solving a one- or two-step equation.	Determine which steps are needed for a one- or two-step equation.	Determine if one or two steps are needed to solve an equation.	
Linear and Exponential Relationships				
Cluster: Represent and solve equations and ineq	ualities graphically.			
A.M.A1HS.10 Interpret the meaning of a point on the graph of a linear function (e.g., on a graph of pizza purchases, trace the graph to a point and tell the number of pizzas purchased and the total cost of the pizzas).	Determine what number is represented by a point on a graph.	Determine what number is represented by a point on a graph when given choices.	State what the point on a graph represents.	
A.M.A1HS.11	Identify that the point of	Identify the ordered pair of the	Identify the point at which two	
Interpret the meaning of the intersection of the two graphs.	intersection of two graphs is the solution to both equations.	point of intersection.	graphs intersect.	

A.M.A1HS.12 With the assistance of a graphing calculator and visual cue cards as needed, graph the solutions to a linear inequality in two variables as a halfplane (excluding the boundary in the case of a strict inequality) and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding halfplanes.	Use visual cue cards and a graphing calculator to graph solutions to linear inequalities.	Follow step-by-step instructions to graph a solution to linear inequalities on a graphing calculator.	Correctly enter numbers in a calculator.			
Cluster: Understand the concept of a function.						
A.M.A1HS.13 Using a calculator and a visual cue card of function rules that describe proportional relationships, solve real-world problems (e.g., Unit Cost x Number of Items = Total Cost).	Using a calculator and a visual cue card of function rules, solve real-world problems involving proportional relationships.	Using a calculator and a visual cue card of function rules, input numbers to determine the answer to a real-world proportional relationship.	Determine that as you purchase more items, the price will go up in specific intervals. The more you purchase the more money you will need.			
A.M.A1HS.14 Using a calculator and a visual cue card of function rules, solve real-world problems (e.g., given a \$10 off coupon, use Sales Price = Original Price – Discount to find the Sales Price).	Using a calculator and visual cue cards of function rules, solve realworld problems.	Determine which function rule would be used to solve a specific real-world problem.	Correctly enter numbers in a calculator.			
A.M.A1HS.15 Determine the missing values in arithmetic sequences. Instructional Note: Limit the common ratio in arithmetic sequences to integers (e.g., 20, 18, 16,, 12, 8, or 3, 7, 11, 15,, 23,).	Find the missing values in an arithmetic sequence.	Determine the missing values in an arithmetic sequence given choices.	Determine what object is missing in a sequence.			
Cluster: Interpret functions that arise in applicat	Cluster: Interpret functions that arise in applications in terms of a context.					
A.M.A1HS.16 Interpret data from graphs that represent linear functions with different rates of change and interpret which has the greater rate of change. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative.	Determine the rate of change when given linear functions on a graph.	When given more than one function represented on a graph, determine which function has the greater rate of change.	Determine if a function's rate of change (line on a graph) is increasing or decreasing when the function is represented on a graph.			

Giv un da	A.M.A1HS.17 Given real-world measures, demonstrate an understanding of domains (e.g., there are seven days in a week; twelve months in a year; twelve inches in a foot).		State the correct number of items in each domain regarding the passage of time from minutes in an hour to months in a year, as well as the number of single units in a larger unit of measurement.	Sort given items into the correct domain.	Select the correct number of items in a particular domain (i.e. 7 days in a week).
Ca fur	A.M.A1HS.18 Calculate and interpret the rate of change of a function presented as a table (e.g., the following table has a rate of change of -2).		When given a function represented in a table, calculate the rate of change.	When given a function represented in a table, state whether it is increasing or decreasing.	Determine when a table shows change versus no change.
	Items Bought	Money Remaining			
	0	\$20			
	1	\$18			
	2	\$16			
	3	\$14			
Clı	ıster: Analyze repres	entations of functions.			
Α.Λ	Л.A1HS.19		Using a graphing calculator and	Using a graphing calculator and a	Identify key features of a graph.
With the assistance of a graphing calculator and visual cue cards as needed, graph functions expressed symbolically and show key features of the graph. <u>Instructional Note:</u> Focus on linear functions.		ded, graph functions and show key features	a visual cue card, determine the rate of change when given linear functions on a graph.	visual cue card, when given more than one function, determine which function has the greater rate of change.	
A. <i>N</i>	A.M.A1HS.20		Compare information for two	Enter information for two functions	Identify information to be used in
rep	entify information for presented in different scount Table and Stor	tables (e.g., Store A's	functions represented in different tables.	into different tables.	function tables.

Cluster: Build a function t	that models a relationsl	nip between two quantities.		
A.M.A1HS.21 Given a linear function represented by a table, determine the rate of change and add additional values to extend the table.		in a table, calculate the rate of in a ta	When given a function represented in a table, calculate the rate of change.	When given a function represented in a table and given choices, chose the correct number needed to extend the table.
Items Bought	Cost			
0	\$0.00			
1	\$0.50			
2	\$1.00			
3	\$1.50			
4	\$2.00			
A.M.A1HS.22 Determine the common ratio in arithmetic sequences (e.g., recognize that "down 2" would describe the common ratio for a sequence such as 20, 18, 16, 14, 12 and write it as -2.)		Determine the common ratio for a sequence. and solve problems.	Determine whether the ratio is positive or negative.	Choose the next number in an arithmetic sequence given choices.
A.M.A1HS.23	ina exponential models	Given a graph, decide if it is a	Given a graph, decide if it is a	Given a graph, decide if it is a
Given a graph, distinguish functions and exponentia		linear function or an exponential function.	linear function or an exponential function.	linear function or an exponential function.
A.M.A1HS.24		Given information, distinguish	Given information, distinguish	Given information, distinguish
From a given list recognize linear and exponential functions, including arithmetic sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).		between linear and exponential functions.	between linear and exponential functions.	between linear and exponential functions.
A.M.A1HS.25		Given two tables of linear real-	Given two tables of linear real-	Given two tables of linear real-
Given two tables represe function, determine whic greater rate.		world functions, choose the one increasing at a greater rate.	world functions, choose the one increasing at a greater rate.	world functions, choose the one increasing at a greater rate.

Cluster: Interpret expressions for functions in ter	ms of the situation they model		
A.M.A1HS.26	Determine constants (e.g. slope,	Determine the slope of a linear	Given choices of context, determine which linear function is described.
Interpret the parameters in a linear function in terms of a context. <u>Instructional Note:</u> Limit to linear functions.	y-intercept, etc.) of linear functions for different contexts.	function for different contexts.	
Descriptive Statistics			
Cluster: Summarize, represent, and interpret date	ta on a single count or measurement v	rariable.	
A.M.A1HS.27 Represent data with dot plots on a number line.	Place dot plots on a number line to represent data.	Place dot plots on a number line to represent data.	Place dot plots on a number line to represent data.
A.M.A1HS.28	Identify the highest number	Identify where the highest and	Identify that the dot represents a
Given a dot plot, identify the maximum value, the minimum value, and the mode.	represented, the lowest number represented, and the most repeated number.	lowest dots are located on the dot plot.	value on a dot plot.
A.M.A1HS.29	Given representations of data sets,	Given representations of data sets,	Match a graph to a given data set.
Interpret differences in graphs of data sets.	compare and contrast data.	compare similarities of data.	
Charter Comments was and intermed to		- variables	
Cluster: Summarize, represent, and interpret data		Γ	
A.M.A1HS.30	Conduct a survey and chart information. Then, answer	Fill in squares on a graph to represent given data.	Sort data or objects according to given characteristics.
Sort data or objects according to characteristics, similarities, and/or associations. Interpret frequencies in the context of the data (e.g., after surveying students, regarding their favorite ice cream flavor, answer related questions).	questions regarding the information on the chart.	represent given data.	given characteristics.
A.M.A1HS.31 Represent data of frequency using tally charts in real world situations.	Place tally marks when charting data.	Demonstrates one-to-one correspondence between data and tally marks.	Use manipulatives to represent a number.

Cluster: Distinguish between cause and effect.

In real world situations, distinguish between the cause and the effect.

Determine which is the cause and which is the effect in a real world situation.

Identify situations that have cause and effect outcomes in a realworld situation.

Identify that a change has occurred.

A.M.A1HS.32

Expressions and Equations			
Cluster: Interpret the structure of equations.			
A.M.A1HS.33 Given a real world problem and a choice of two algebraic expressions involving arithmetic operations, identify the algebraic expression that models the situation.	When given two algebraic expressions, identify the correct algebraic expression to model a given real-world problem.	When given two algebraic expressions, identify the one with the correct operational symbols.	When given two algebraic expressions, identify the expression with the correct numbers.
Cluster: Write expressions in equivalent forms	to solve problems.		
A.M.A1HS.34 Solve an algebraic expression involving arithmetic operations to represent a real-world problem (e.g., Jan has \$10. She buys a loaf of bread for \$2 and a gallon of milk. She now has \$5. What is the cost of the milk?)	Solve an algebraic expression which represents a real-world problem.	When given the solution, solve equation to check for accuracy.	Determine what question is being asked in a real-world problem.
Cluster: Create equations that describe numbers	or relationships.		
A.M.A1HS.35 Determine solutions to equations that model real-world problem situations with two unknowns (e.g., given a set of options, find solutions for x + y = \$6.25).	Solve equations with two unknowns when given a set of options.	When given the solutions, solve equation to check for accuracy.	Determine what the unknowns represent in a real-world problem
Cluster: Solve equations that describe numbers	or relationships		
A.M.A1HS.36 Given choices and use of a calculator, solve quadratic equations in one variable by inspection (e.g., for x² = 49).	Memorize perfect squares to 10.	Create a model or drawing demonstrating that a square is a number multiplied by itself.	Use manipulatives to represent perfect squares to 10.

Linear Functions and Modeling						
Cluster: Use properties of rational and irrational numbers.						
A.M.A1HS.37 Solve addition, subtraction, multiplication, and division real-world problems involving whole numbers and decimals (i.e., money) using visuals and/or a calculator.	Solve addition, subtraction, multiplication, and division realworld problems using whole numbers and decimals.	Solve addition and subtraction real-world problems using whole numbers and decimals.	Solve addition and subtraction real-world problems using whole numbers.			

Cluster: Interpret functions that arise in applications in terms of a context.					
A.M.A1HS.38 Given a real-world function, find the possible values of the domain (e.g., Could you work 10 days a week? How many days a week can you work?).	Identify the limits of real-world domains.	Choose the correct value for the limits of specific real-world domains when given choices.	Count the number of specific values of a given domain.		
Cluster: Analyze representations of functions.					
A.M.A1HS.39 Compare two functions represented in different tables (e.g., Store A's Discount Table and Store B's Discount Table) to answer questions.	Compare two functions represented in different tables to answer questions.	Answer questions based on information presented in two tables representing functions.	Identify what information is represented in two tables.		

High School Algebra II, Traditional Pathway

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Polynomial Relationships			
Interpret the structure of expressions.			
A.M.A2HS.1 Identify an algebraic expression involving arithmetic operations to represent a real-world problem.	Choose the correct algebraic expression with at least one operation to represent a real-world problem.	Choose the correct symbol for an operation to use in a real-world problem.	Choose the correct symbol that represents an operation for a realworld problem.
AM.A2HS.2 In real world problem situations, combine mixed numbers (i.e., recipes). Instructional Note: Limit to halves.	With a calculator, combine mixed numbers.	Using manipulatives to model combining wholes and halves, state the expression.	Using manipulatives, combine wholes and halves.
A.M.A2HS.3 Interpret the meaning of the intersection of the two graphs. Instructional Note: Include linear and polynomial functions.	Understand that the point of intersection of two graphs is the solution to both equations.	Identify the ordered pair of the point of intersection.	Identify the point at which two graphs intersect.
Modeling with Functions			
Create equations that describe numbers or relati	ionships.		
A.M.A2HS.4 Create linear equations and inequalities in one variable and use them to solve problems.	Given linear equations and inequalities with one variable and graphic representations, solve realworld problems.	Given calculator and formula for linear equations or inequalities with one variable, solve real-world problems.	Identify the appropriate equality or inequality sign in an equation.
A.M.A2HS.5 Create linear equations in two variables to represent relationships between quantities and graph equations on coordinate axes with labels and scales.	Create two variable linear equations and graph on a coordinate plane.	Given two variable linear equations and graph, describe the results in terms of whether the lines will intersect or be parallel.	Identify lines as being either parallel or intersecting.

Solve n these p	A.M.A2HS.6 Solve multi-step word problems, represent these problems using formulas with a letter standing for the unknown quantity. Assess the reasonableness of answers.		Solve equations with two unknowns when given a set of options.	Solve an equation to check for accuracy when given the solution.	Determine what the unknowns represent in a real-world problem.
Cluster	: Interpret functio	ns that arise in appl	cations in terms of a context.		
Given a	A.M.A2HS.7 Given a linear function represented by a table, determine the rate of change and find missing value. For example:		When given a function represented in a table, calculate the rate of change and fill in the chart with additional values.	When given a function represented in a table, calculate the rate of change.	When given a function represented in a table and given choices, chose the correct number needed to extend the table.
	Items Bought	Cost			
	1	\$5			
	2	\$7			
	3				
	4	\$11			
		\$13			
	6				
Given r unders	A.M.A2HS.8 Given real-world measures, demonstrate an understanding of domains and list possible values of domains.		Identify the limits of real-world domains.	Choose the correct value for the limits of specific real-world domains when given choices.	Count the number of specific values of a given domain.
Cluster	: Analyze function	ns using different rep	resentations.		
Compa represe Discou	Cluster: Analyze functions using different representations. A.M.A2HS.9 Compare and contrast two functions represented in different tables (e.g., Store A's Discount Table and Store B's Discount Table) to answer questions.		Compare and contrast two functions represented in different tables to answer questions.	Answer questions based on information presented in two tables representing functions.	Identify what information is represented in two tables.

Cluster: Build a function that models a relations	ship between two quantities.		
A.M.A2HS.10 Given a real-world situation, complete a given table to answer questions. For example: Items Bought Cost	Given partial data, complete the remaining parts of the table.	Given a completed table about a real-world situation, answer questions pertaining to the information.	Identify the components of the completed table in relation to a real-world situation.
Inferences and Conclusions from Data			
Summarize, represent, and interpret data on a s	ingle count or measurement variable.		
A.M.A2HS.11 Test predictions involving real-world events (e.g., experimental probability).	Set up and collect data involving a predicted event.	collect data for a given event, given a scenario.	Perform task to elicit data for event probability (e.g. pulling cubes from bag).
Understand and evaluate random processes und	lerlying statistical experiments.		
A.M.A2HS.12 Approximate the likelihood of an event based on its probability (e.g., given a weather forecast, determine if it is likely to rain) and make appropriate real-world choices.	Answer questions using the words likely or unlikely.	Given choice(s), pick which is unlikely to occur.	Given choice(s), pick which is likely to occur.
A.M.A2HS.13 Revise original predictions if necessary when predicting real-world events.	Determine source of error and correct prediction for real-world events.	If prediction was incorrect, determine source of error.	Determine if prediction was correct.
Cluster: Make inferences and justify conclusions	from sample surveys, experiments, a	nd observational studies.	
A.M.A2HS.14 Draw conclusions from a given representation of data in real world situations.	Answer questions about a given representation of data in real world situations.	Describe and discuss results and observations regarding a set of data from real world situations.	Determine which item was more/ less represented from given data sets.

A.M.A2HS.15 Use data from a survey to make assumptions about a larger population (e.g., from a survey about favorite color given to a small number of students in a school, assume that the results hold for the school).	Draw conclusions from collected data to determine if that data would translate to a larger sample size.	Discuss data collected from smaller sample sizes.	Discuss that a small group can be a representation of a large group.
A.M.A2HS.16 Use data from a randomized experiment to make real world predictions.	Predict whether the sample randomized experiment would hold true in other real-world applications.	Answer questions regarding a randomized experiment.	Discuss whether an experiment is randomized or not.
Cluster: Use probability to evaluate outcomes of	f decisions.		
AM.A2HS.17 Use probabilities to make fair decisions.	Determine probability of fair outcomes when using dice or coin.	Discuss whether a method of selection would be fair.	Determine method of making fair decisions based on probabilities.
AM.A2HS.18 Analyze decisions and outcomes based on probability concepts.	Determine outcomes of choices made from predicted events.	Answer questions about decisions based on probability concepts.	Determine clothing choices based on weather predictions.

Geometry, Traditional Pathway

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Congruence and Constructions			
Cluster: Experiment with transformations in the	olane.		
A.M.GHS.1	Identify and/or illustrate	Identifies images of perpendicular	Given choice(s), identifies
Know the attributes of perpendicular lines, parallel lines, and line segments; angles; and circles.	perpendicular lines, parallel lines, line segments, angles, and circles.	lines, parallel lines, line segments, angles, and circles.	perpendicular lines, parallel lines, line segments, angles, and circles.
A.M.GHS.2	Use manipulatives to demonstrate	Use manipulatives to demonstrate	Use manipulatives to demonstrate
Using manipulatives, translate, rotate, and/or reflect a geometric figure.	what translate, rotate, and/or reflect mean.	what translate, rotate and/or reflect mean.	what translate, rotate, and/or reflect mean.
A.M.GHS.3	Using manipulatives, place	Given a rotated and/or reflected	When shown examples of reflected
Given a rectangle, parallelogram, trapezoid, or regular polygon manipulative, recognize the rotations and reflections that carry it onto itself.	a rotated and/or reflected manipulative on top of the original to determine if it aligns exactly.	manipulative, determine if it lines up to the original.	and/or rotated manipulatives, determine if it aligns to the original.
A.M.GHS.4	When given shapes that have	When given shapes that have	When given three shapes, identify
Recognize that a geometric shape and its translated/rotated/reflected shape are congruent.	been translated/rotated/reflected, identify the shapes that are congruent.	been translated/rotated/reflected, identify the shapes that are identical in form.	the two congruent (identical) shapes.
A.M.GHS.5	Trace a given geometric shape to	Trace a given geometric shape to	Given a traced shape, demonstrate
Trace a given geometric shape to demonstrate translation, rotation, and/or reflection.	demonstrate translation, rotation, and/or reflection.	demonstrate translation, rotation, and/or reflection.	translation, rotation, and/or reflection.
Cluster: Identify congruent angles.			
A.M.GHS.6 Given parallel lines cut by a transversal, identify	Identify congruent angles from given parallel lines cut by a	Using rules and generic examples, match the rule to the specific angles created when transversals	Identify angles created by a transversal cutting through parallel
congruent angles.	transversal.	cut parallel lines.	lines.

Cluster: Identify geometric figures.				
A.M.GHS.7 From a list of examples, identify perpendicular line segments, parallel line segments, angles, and circles. Introduce real world situations involving perpendicular line segments, parallel line segments, angles, and circles (e.g., intersecting or parallel streets).	Given real world examples, identify perpendicular line segments, parallel line segments, angles, and circles.	Match real-world examples of perpendicular line segments, parallel line segments, angles, and circles.	Using flash cards, identify perpendicular line segments, parallel line segments, angles and circles.	

Similarity			
Cluster: Understand similarity in terms of similarity	nrity transformations.		
A.M.GHS.8	Given shapes, sort based on shape	Given shapes, sort based on size.	Given shapes, sort based on shape.
Given two figures, decide if they are similar.	and size.		
Extending to Three Dimensions			
Cluster: Use measurement and volume formulas	s to solve problems.		
A.M.GHS.9	Choose the correct measurement	Choose the correct type of	Given choice(s), choose the
Measure quantities accurately (e.g., follow a recipe).	tool to use for the situation and designated amount.	measurement tool (e.g., measuring cups for water, tablespoons for spices). May not identify correct measuring cup size.	correct measurement tool for the designated activity.
A.M.GHS.10 Given a list of volume formulas for cylinders, pyramids, cones and spheres identify the correct formula to solve real-world problems.	Given a list of volume formulas with pictures for cylinders and pyramids, identify the correct formula to solve real-world problems.	Given a list of volume formulas with pictures for cones and spheres identify the correct formula to solve real-world problems.	Given pictures of shapes, choose the correct shape in a real-world problem.
Cluster: Visualize the relation between two dime	ensional and three-dimensional object	ts.	
A.M.GHS.11 Identify the shapes of two-dimensional cross-sections of three-dimensional objects.	Given pictures/graphics of real-world objects, match the shapes of two-dimensional cross-sections of three-dimensional objects (e.g. outline of triangle to picture of a pyramid).	Given real-world objects, match the shapes of two-dimensional cross-sections of three- dimensional objects. (e.g., outline of circle to picture of a ball).	Given real-world objects, match the shapes of two-dimensional cross-sections of three- dimensional objects (e.g. ice cube to a square outline).

Cluster: Apply geometric concepts in modeling si	tuations.5		
A.M.GHS.12 Use properties of geometric shapes to describe real world objects.	Given pictures/graphics of real- world objects, describe the shape in terms of geometric properties.	Given real-world objects, match and discuss the geometric properties of the shapes.	Given real-world objects, sort the geometric shapes to their descriptor (e.g. circle to clock face).
Coordinates, Area, and Perimeter			
Cluster: Use coordinates and determine area and	l perimeter.		
A.M.GHS.13 Given coordinates, identify the geometric shapes using proper terminology.	Graph the points from given coordinates and identify shapes using proper terminology.	Given points on graph, first predict shape and then connect points to create geometric shape.	Given points on graph, connect points to create geometric shape.
A.M.GHS.14 From a list of several examples of points on a directed line segment between two given points, determine which one partitions the segment in a given ratio. Instructional Note: Limit to halves and thirds.	Create a number line and identify half and third points.	Given a number line, determine the half and third points on the line.	Count the lines between two given points of a line segment on a number line.
A.M.GHS.15 Find perimeters and areas of squares and rectangles to solve real-world problems.	Using a formula and calculator, determine area and perimeter of two- dimensional shapes.	Using manipulatives and calculator, determine area and perimeter of two- dimensional shapes.	Using manipulatives, represent area of two dimensional shapes.

Applications of Probability			
Cluster: Make predictions.			
A.M.GHS.16	Answer questions using the words	Given choice(s), pick which is	Given choice(s), pick which is likely
Make predictions involving real world causeand-effect situations.	likely or unlikely.	unlikely to occur.	to occur.
A.M.GHS.17	Give examples of independent	Given examples of events,	Discuss two events that are
Recognize that two events A and B are independent.	events.	determine if they are independent.	independent.

Cluster: Use probability to evaluate outcomes of decisions.					
A.M.GHS.18 Use probabilities to make fair decisions in real world situations (e.g., drawing by lots or using a random number generator).	Determine probability of fair outcomes when using dice or coin.	Discuss whether a method of selection would be fair.	Determine method of making fair decisions based on probabilities.		
Modeling with Geometry	Modeling with Geometry				
Cluster: Visualize relationships between two dim	ensional and three-dimensional obje	cts and apply geometric concepts in I	modeling situations.		
 A.M.GHS.19 Sketch a scale model using graph paper as needed (e.g., the layout of their house). 	Sketch or create on computer, a scale model of a building and identify various locations and items.	Given a scale model/map of a building, identify various locations and items.	Given a scale model and pictures of objects, recreate a space they are familiar with.		
Interpret a scale model (e.g., locate specific rooms on a diagram of the school).					

Transitions for Seniors, Traditional Pathway

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Number and Quantity – The Real Number Sy	stem		
Extend the properties of exponents to rational ex	kponents.		
A.M.TMS.1	Measure an item using the	Measure items using units (i.e.	Choose the appropriate tool for
Express quantities to the appropriate precision of measurement (e.g., measure a pencil to the nearest inch).	appropriate unit of measurement.	squares).	the measurement of an item.
A.M.TMS.2	Determine the appropriate unit of	Choose the correct tool to measure	Choose the correct tool for
Choose the appropriate unit of measurement (e.g., determine when to use feet/inches/meter, cups/gallons/liter, ounces/pounds/gram).	measurement for a specific task.	given items.	measurement (e.g., a ruler, yardstick, measuring cup), given choice(s).
Algebra – Seeing Structure in Expressions			
Write expressions in equivalent forms to solve pr	oblems.		
A.M.TMS.3	Create and solve a one-step	Solve a one-step algebraic	Choose the correct symbol that
Solve an algebraic expression involving arithmetic operations to represent a real-world problem (e.g., Jan has \$10. She buys a loaf of bread for \$2 and a gallon of milk. She now has \$5. What is the cost of the milk?)	algebraic equation for a real- world problem using addition or subtraction.	equation for a real-world problem using addition or subtraction.	represents an operation for a real-world problem.

Understand the connections between proportional relationship, lines, and linear equations.			
A.M.TMS.4 Recognize and represent proportional relationships between quantities on graphs. In real world problem situations, decide whether two quantities are in a proportional relationship (e.g. If Dan walks one block each morning, how many blocks does he walk in one week?).	Answer questions about proportional relationships between quantities on graphs.	Use manipulatives to demonstrate a proportional relationship.	Attend to and discuss proportional relationships between quantities on graphs.
A.M.TMS.5 Given a table of values depicting a proportional relationship or an arithmetic sequence, determine missing values.	Given the equation determine the missing value on a table depicting proportional relationships or an arithmetic sequence.	Answer questions about a given table of values depicting a proportional relationship.	Attend to and discuss the relationship between numbers on a table.

A.M.MTS.6

- Given a real world problem situation, write, read, and/or solve one-step addition and subtraction equations for an unknown whole number and/or decimal money amounts, with a variable standing for the unknown (e.g., \$20- c = \$13 How much did I spend?). (Focus on money)
- Given a one-step addition or subtraction equation with two unknowns, create true statements. (e.g., given x + y = 7, create statements such as 2 + 5 = 7 and 3 + 4 = 7) Instructional Note: Limit to whole numbers.
- Solve simple one-step word problems involving multiplication that have whole numbers or fractional remainders and understand what the fractional remainder means (e.g., Molly and her friend have 13 cookies and want to equally distribute the cookies between them, how much would each person get and how many are left over?).
- Match two-step word problems posed with whole numbers and having whole-number answers using the four operations with the correct symbolic representation (e.g., two times a number plus one equals five matches 2 x b + 1 = 5).

Using a calculator, solve addition, subtraction, and multiplication equations with one variable. (instructional note: address all bullet points)

Using a calculator and given formula, solve addition, subtraction, and multiplication equations with one variable. (instructional note: address all bullet points)

Identify the variable in an addition, subtraction, or multiplication problem. (instructional note: address all bullet points)

Algebra – Creating Equations				
Create equations that describe numbers or relati	ionships.			
A.M.TMS.7	Create and solve a one-step	Solve a one-step algebraic	Choose the correct symbol that	
 Given a real-world problem situation, write, read, and/or solve one-step addition and subtraction equations for an unknown number, with a variable standing for the unknown (e.g., \$8.50 + c = \$12). 	algebraic equation for a real- world problem using addition or subtraction.	equation for a real-world problem using addition or subtraction.	represents an operation for a real-world problem.	
 Create linear equations and inequalities in one variable and use them to solve problems. 				
A.M.TMS.8	Create two variable linear	Given two variable linear	Identify lines as being either	
Create linear equations in two variables to represent relationships between quantities and graph equations on coordinate axes with labels and scales.	equations and graph on a coordinate plane.	equations and graph, describe the results in terms of whether the lines will intersect or be parallel.	parallel or intersecting.	
A.M.TMS.9	Use the appropriate mathematical	Determine the appropriate	Choose which mathematical	
Demonstrate an understanding of terms such as "at least" and "fewer than" in solving realworld problems.	symbol when solving real- world problems based on the terminology in the problem using equations and inequalities.	mathematical symbol to use based on the terminology in real-world problems.	symbol to use in real-world problems given choices.	
A.M.TMS.10	Given a word problem, create	Solve a word problem using multi-	Recognizes a letter can stand for a	
Solve multi-step word problems, represent these problems using formulas with a letter standing for the unknown quantity. Assess the reasonableness of answers.	and solve multi-step algebraic equations using a letter for the unknown quantity.	step algebraic equations.	quantity.	
Algebra – Reasoning with Equations and Inequalities				
Solve equations in one variable.				
A.M.TMS.11	Write each step needed in solving	Determine which steps are needed	Determine if one or two steps are	
Demonstrate each step in solving a one or two- step equation.	a one or two-step equation.	for a one or two-step equation.	needed to solve an equation.	

A.M.TMS.12	Margariza parfect aguarea to 10	Create a readal as drawing	Han manipulativas ta rangasant
	Memorize perfect squares to 10.	Create a model or drawing demonstrating that a square is a	Use manipulatives to represent perfect squares to 10.
Given choices and use of a calculator, solve quadratic equations in one variable by		number multiplied by itself.	
inspection (e.g., for $x^2 = 49$).			
Solve systems of equations.			
A.M.TMS.13	Identify that the point of	Identify the ordered pair of the	Identify the point at which two
Interpret the meaning of the intersection of the two graphs. Instructional Note: Include linear and polynomial functions.	intersection of two graphs is the solution to both equations.	point of intersection.	graphs intersect.
Represent and solve equations and inequalities	graphically.		
A.M.TMS.14	Use visual cue cards and a	Follow step-by-step instructions	Enter numbers in a calculator.
With the assistance of a graphing calculator and visual cue cards as needed, graph the solutions to a linear inequality in two variables as a halfplane (excluding the boundary in the case of a strict inequality) and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding halfplanes.	graphing calculator to graph solutions to linear inequalities.	to graph a solution to linear inequalities on a graphing calculator.	
Functions – Interpreting Functions			
Understand the concept of a function.			
A.M.TMS.15	Using a calculator and a visual	Using a calculator and a visual	Identify that as you purchase
Using a calculator and a visual cue card of function rules that describe proportional relationships, solve real-world problems (e.g., Unit Cost x Number of Items = Total Cost).	cue card of function rules, solve real-world problems involving proportional relationships.	cue card of function rules, input numbers to determine the answer in a real-world proportional relationship.	more items, the price will go up in specific intervals. The more you purchase the more money you will need.
Interpret functions that arise in applications in to	erms of the context.		
A.M.TMS.16 Determine the common ratio in arithmetic sequences (e.g., recognize that "down 2" would describe the common ratio for a sequence such as 20, 18, 16, 14, 12 and write it as -2.)	Determine the common ratio for a sequence.	Determine whether the ratio is positive or negative.	Given choice(s), choose the next number in an arithmetic sequence.

A.M.TMS.17 Interpret the parameters in a linear function in terms of a context. Instructional Note: Limit to linear functions.			Determine constants (e.g. slope, y-intercept, etc) of linear functions for different contexts.	Determine the slope of a linear function for different contexts.	Given choices of context, determine which linear function is described.
A.M.TMS.18 Given a linear function represented by a table, determine the rate of change and find missing value (e.g.,		•	When given a function represented in a table, calculate the rate of change and fill in the chart with additional values.	When given a function represented in a table, calculate the rate of change.	When given a function represented in a table and given choices, chose the correct number needed to extend the table.
	Items Bought	Cost			
	1	\$5			
	2	\$7			
	3				
	4	\$11			
		\$13			
	6				
A.M.TMS.19 Given a graph, distinguish between linear functions and exponential functions.			Given a graph, decide if it is a linear function or an exponential function.	Given a graph, decide if it is a linear function or an exponential function.	Given a graph, decide if it is a linear function or an exponential function.

Analyze representations of functions.						
 A.M.TMS.20 Given a function rule and the input value, determine the output. Given graphical representations determine if the graph is a straight line or not a straight line. (Staying within Quadrant I.) 	Answer simple questions about a linear function represented by a table. Given a graphical representation, identify the straight line.	Read and discuss a linear function represented by a table. Given a curved line and a straight line, determine the differences.	Model and discuss a linear function represented by a table. Using a straight line and an unrelated object, identify the straight line.			
A.M.TMS.21 Demonstrate an understanding of an increase or decrease on a graph.	Answer questions about an increase or decrease on a graph.	Identify an increase or decrease on a graph.	Attend to and discuss an increase or decrease on a graph.			

A.M.TMS.22 With the assistance of a graphing calculator and visual cue cards as needed, graph functions expressed symbolically and show key features of the graph. Instructional Note: Focus on linear functions.	Using a graphing calculator and a visual cue card, determine the rate of change when given linear functions on a graph.	Using a graphing calculator and a visual cue card, when given more than one function, determine which function has the greater rate of change.	Identify key features of a graph.
A.M.TMS.23 Given two tables representing linear real-world function, determine which is increasing at a greater rate.	Given two tables of linear real- world functions, choose the one increasing with a greater rate.	Given two tables of linear real- world functions, choose the one increasing with a greater rate.	Given two tables of linear real- world functions, choose the one increasing with a greater rate.
A.M.TMS.24 Compare and contrast two functions represented in different tables or graphs (e.g., Store A's Discount Table and Store B's Discount Table) to answer questions.	Compare and contrast two functions represented in different tables to answer questions.	Answer questions based on information presented in two tables representing functions.	Identify what information is represented in two tables.
Functions - Building Functions			
Build a function that models a relationship betwe	een two quantities.		
A.M.TMS.25 From a given list recognize linear and exponential functions, including arithmetic sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).	Given information, distinguish between linear and exponential functions.	Given information, distinguish between linear and exponential functions.	Given information, distinguish between linear and exponential functions.
A.M.TMS.26 Given a real-world situation, complete a given table to answer questions. For example: Items Bought Cost	Given partial data, complete the remaining parts of the table.	Given a completed table about a real-world situation, answer questions pertaining to the information.	Identify the components of the completed table in relation to a real-world situation.

Geometry - Geometric Measuring and Dime	nsion			
Explain volume formulas and use them to solve p				
A.M.TMS.27 Measure quantities accurately (e.g., follow a recipe).	Choose the correct measurement tool to use for the situation and designated amount.	Choose the correct type of measurement tool (eg., measuring cups for water, tablespoons for spices). May not identify correct	Choose the correct measurement tool for the designated activity, given choice(s).	
		measuring cup size.		
Geometry – Expressing Geometric Propertie	es with Equations			
Use measurement to solve problems.	T			
A.M.TMS.28 Given coordinates, identify the geometric shapes using proper terminology.	Graph the points from given coordinates and identify shape using proper terminology.	Given points on graph, first predict shape and then connect points to create geometric shape.	Given points on graph, connect points to create geometric shape.	
A.M.TMS.29	Using formula and calculator,	Using manipulatives and	Using manipulatives, represent	
Find perimeters and areas of squares and rectangles to solve real-world problems.	determine area and perimeter of two dimensional shapes.	calculator, determine area and perimeter of two dimensional shapes.	area of two dimensional shapes.	
Use coordinates and determine area and perime	ter.			
A.M.TMS.30	Sketch or create on computer,	Given scale model/map of a	Given scale model and pictures of	
Use scale models to demonstrate an understanding of geometric concepts.	a scale model of a building and identify various locations and items.	building, identify various locations and items.	objects, recreate a space they are familiar with.	
• Sketch a scale model using graph paper as needed (e.g., the layout of their house).	Teems.			
 Interpret a scale model (e.g., locate specific rooms on a diagram of the school). 				
Statistics and Probability - Interpreting Categorical & Quantitative Data				
Summarize, represent, and interpret data on two categorical and quantitative variables.				
A.M.TMS.31	Place tally marks when charting	Demonstrates one-to-one	Use manipulatives to represent a	
Represent data of frequency using tally charts in real world situations.	data.	correspondence between data and tally marks.	number.	

A.M.TMS.32 Sort data or objects according to characteristics, similarities, and/or associations. Interpret frequencies in the context of the data (e.g., after surveying students, regarding their favorite ice cream flavor, answer related questions).	Given sorted data, interpret frequencies in the context of the data.	Given sorted data, answer questions about the context of the data.	Sort objects according to characteristics, similarities, and/or associations.	
A.M.TMS.33 Represent data with dot plots on a number line.	Place dot plots on a number line to represent data.	Place dot plots on a number line to represent data.	Place dot plots on a number line to represent data.	
A.M.TMS.34 Given a dot plot, identify the maximum value, the minimum value, and the mode.	Identifies the highest number represented, the lowest number represented and the most repeated number.	Identifies where the highest and lowest dot are located on the dot plot.	Identify that the dot represents a value on a dot plot.	
A.M.TMS.35 Interpret differences in graphs of data sets.	Given representations of data sets, compare and contrast data.	Given representations of data sets, compare similarities of data.	Match a graph to a given data set.	
A.M.TMS.36 In real world situations, distinguish between the cause and the effect.	Determine which is the cause and which is the effect in a real world situation.	Identify situations that have cause and effect outcomes in a realworld situation.	Recognize that a change has occurred.	
Statistics and Probability - Interpreting Cat	egorical & Quantitative Data			
Understand and evaluate random processes underlying statistical experiments				
A.M.TMS.37 Approximate the likelihood of an event based on its probability (e.g., given a weather forecast, determine if it is likely to rain) and make appropriate real-world choices.	Answer questions using the words likely or unlikely.	Given choice(s), determine which is unlikely to occur.	Given choice(s), determine which is likely to occur.	

High School Mathematics I, Integrated Pathway

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Relationships between Quantities			
Reason quantitatively and use units to solve pro	blems.		
A.M.1HS.1	Measure an item using the	Measure items using units (i.e.	Choose the appropriate tool for
Express quantities to the appropriate precision of measurement (e.g., measure a pencil to the nearest inch).	appropriate unit of measurement.	squares).	the measurement of an item.
A.M.1HS.2	Define the terms used to	Choose the correct term for a	Choose the correct term for what
Define appropriate quantities for the purpose of descriptive modeling.	determine dimensions.	specific quantity.(e.g. gallons, miles, grams, etc.)	is measured by specific tools.(e.g. ruler to inches and measuring cup to ounces, etc.)
A.M.1HS.3	Determine the appropriate unit of	Choose the correct tool to measure	Choose the correct tool for
Choose the appropriate unit of measurement (e.g., determine when to use feet/inches/meter, cups/gallons/liter, ounces/pounds/gram, etc.).	measurement for a specific task.	given items.	measurement (e.g., a ruler, yardstick, measuring cup), given choice(s).
Cluster: Interpret the structure of expressions.			
A.M.1HS.4	Choose the correct algebraic	Choose the correct symbol for	Choose the correct symbol that
Identify an algebraic expression involving at least one arithmetic operation to represent a real-world problem.	expression with at least one operation to represent a real-world problem.	an operation to use in real-world problem.	represents an operation for a real- world problem.
Cluster: Create equations that describe numbers	or relationships.		
A.M.1HS.5	Create and solve a one-step	Solve a one-step algebraic	Choose the correct symbol that
Given a real-world problem situation, write, read, and/or solve one-step addition and subtraction equations for an unknown number with a variable standing for the unknown (e.g., \$8.50 + c = \$12).	algebraic equation for a real- world problem using addition or subtraction.	equation for a real-world problem using addition or subtraction.	represents an operation for a real-world problem.

A.M.1HS.6 Determine solutions to equations that model real-world problem situations with two unknowns (e.g., given a set of options, find solutions for x + y = \$6.25).	With two unknowns, determine the solution for real-world problems.	With two unknowns, determine the correct equation for a solution to real-world problems.	Determine what is unknown in real-world problems.
A.M.1HS.7 Demonstrate an understanding of terms such as "at least" and "fewer than" in solving real-world problems.	Use the appropriate mathematical symbol when solving real-world problems based on the terminology in the problem using equations and inequalities.	Determine the appropriate mathematical symbol to use based on the terminology in real-world problems.	Choose which mathematical symbol to use in real-world problems given choices.
A.M.1HS.8 Solve two-step word problems, represent these problems using formulas with a letter standing for the unknown quantity.	Given a word problem, create and solve two-step algebraic equations using a letter for the unknown quantity.	Solve a word problem using two- step algebraic equations.	Recognizes a letter can stand for a quantity.
Cluster: Represent and solve equations and inequ	ualities graphically.		
A.M.1HS.9 Interpret the meaning of a point on the graph of a linear function (e.g., on a graph of pizza purchases, trace the graph to a point and tell the number of pizzas purchased and the total cost of the pizzas).	Determine what number is represented by a point on a graph.	Determine what number is represented by a point on a graph when given choices.	State what the point on a graph represents.
A.M.1HS.10 Interpret the meaning of the intersection of the two graphs.	Identify that the point of intersection of two graphs is the solution to both equations.	Identify the ordered pair of the point of intersection.	Identify the point at which two graphs intersect.
A.M.1HS.11 With the assistance of a graphing calculator and visual cue cards as needed, graph the solutions to a linear inequality in two variables as a halfplane (excluding the boundary in the case of a strict inequality) and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding halfplanes.	Use visual cue cards and a graphing calculator to graph solutions to linear inequalities.	Follow step-by-step instructions to graph a solution to linear inequalities on a graphing calculator.	Enter numbers in a calculator.

Cluster: Understand the concept of a function.			
A.M.1HS.12 Using a calculator and a visual cue card of function rules that describe proportional relationships, solve real-world problems (e.g., Unit Cost x Number of Items = Total Cost).	Use visual cue cards and a graphing calculator to graph solutions to linear inequalities.	Follow step-by-step instructions to graph a solution to linear inequalities on a graphing calculator.	Enter numbers in a calculator.
A.M.1HS.13 Using a calculator and a visual cue card of function rules, solve real-world problems (e.g., given a \$10 off coupon, use Sales Price = Original Price – Discount to find the Sales Price).	Using a calculator and visual cue cards of function rules, solve realworld problems.	Determine which function rule would be used to solve a specific real-world problem.	Enter numbers in calculator.
A.M.1HS.14 Determine the missing values in arithmetic sequences. Instructional Note: Limit the common ratio in arithmetic sequences to integers (e.g., 20, 18, 16,, 12, 8, or 3, 7, 11, 15,, 23,).	Determine the missing values in an arithmetic sequence.	Given choice(s), determine the missing values in an arithmetic sequence. given choices.	Determine what object is missing in a sequence.
Cluster: Interpret functions that arise in applicat	ions in terms of a context.		
A.M.1HS.15 Interpret data from graphs that represent linear functions with different rates of change and interpret which has the greater rate of change. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative.	Determine the rate of change when given linear functions on a graph.	When given more than one function represented on a graph, determine which function has the greater rate of change.	Determine if a function's rate of change (line on a graph) is increasing or decreasing when the function is represented on a graph.
A.M.1HS.16 Given real-world measures, demonstrate an understanding of domains (e.g., there are seven days in a week; twelve months in a year; twelve inches in a foot).	States the correct number of items in each domain regarding the passage of time from minutes in an hour to months in a year as well as the number of single units in a larger unit of measurement.	Sort given items into the correct domain.	Select the correct number of items in a particular domain. (i.e. 7 days in a week)

Ci	A.M.1HS.17 Calculate and interpret the rate of change of a function presented as a table (e.g., the following table has a rate of change of -2).		When given a function represented in a table, calculate the rate of change.	When given a function represented in a table, state whether it is increasing or decreasing.	Determine when a table shows change versus no change.
	Items Bought	Money Remaining			
	0	\$20			
	1	\$18			
	2	\$16			

\$14

Cluster: Analyze functions using different representations.				
A.M.1HS.18 With the assistance of a graphing calculator and visual cue cards as needed, graph functions expressed symbolically and show key features of the graph. Instructional Note: Focus on linear functions.	Using a graphing calculator and a visual cue card, determine the rate of change when given linear functions on a graph.	Using a graphing calculator and a visual cue card, when given more than one function, determine which function has the greater rate of change.	Student will identify key features of a graph.	
A.M.1HS.19 Identify information for two functions represented in different tables (e.g., Store A's Discount Table and Store B's Discount Table).	Compare information for two functions represented in different tables.	Enter information for two functions into different tables.	Identify information to be used in function tables.	

Cluster: Build a function	Cluster: Build a function that models a relationship between two quantities.			
A.M.1HS.20 Given a linear function represented by a table, determine the rate of change and add additional values to extend the table.		When given a function represented in a table, calculate the rate of change and fill in the chart with additional values.	When given a function represented in a table, calculate the rate of change.	When given a function represented in a table and given choices, chose the correct number needed to extend the table.
Items Bought	Money Remaining			
0	\$0.00			
1	\$0.50			
2	\$1.00			
3	\$1.50			
4	\$2.00			
A.M.1HS.21 Determine the common ratio in arithmetic sequences (e.g., recognize that "down 2" would describe the common ratio for a sequence such as 20, 18, 16, 14, 12 and write it as -2).		Determine the common ratio for a sequence.	Determine whether the ratio is positive or negative.	Choose the next number in an arithmetic sequence given choices.
Cluster: Compare linear	and exponential models	and solve problems.		
A.M.1HS.22 Given a graph, distingui functions and exponen		Given a graph, decide if it is a linear function or an exponential function.	Given a graph, decide if it is a linear function or an exponential function.	Given a graph, decide if it is a linear function or an exponential function.
A.M.1HS.23		Given information, distinguish	Given information, distinguish	Given information, distinguish
From a given list recognize linear and exponential functions, including arithmetic sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).		between linear and exponential functions.	between linear and exponential functions.	between linear and exponential functions.
A.M.1HS.24		Given two tables of linear real-	Given two tables of linear real-	Given two tables of linear real-
Given two tables repres function, determine wh greater rate.	enting linear real-world ich is increasing at a	world functions, choose the one increasing with a greater rate.	world functions, choose the one increasing with a greater rate.	world functions, choose the one increasing with a greater rate.

A MALIC OF	D-t	Data marina dia alama afa lianan	C:
A.M.1HS.25 Interpret the parameters in a linear function in terms of a context. Instructional Note: Limit to linear functions.	Determine constants (e.g. slope, y-intercept, etc.) of linear functions for different contexts.	Determine the slope of a linear function for different contexts.	Given choices of context, determine which linear function is described.
Reasoning with Equations			
Cluster: Understand solving equations as a proce	ess of reasoning and explain the reaso	oning.	
A.M.1HS.26 Demonstrate each step in solving a one or two step equation.	Given a word problem, create and solve two-step equations.	Solve a word problem using two- step equations.	Solve a word problem using onestep equations.
Descriptive Statistics			
Cluster: Summarize, represent, and interpret dat	ta on a single count or measurement v	variable.	
A.M.1HS.27 Represent data with dot plots on a number line.	Place dot plots on a number line to represent data.	Place dot plots on a number line to represent data.	Place dot plots on a number line to represent data.
A.M.1HS.28 Given a dot plot, identify the maximum value, the minimum value, and the mode.	Identify the highest number represented, the lowest number represented and the most repeated number.	Identify where the highest and lowest dot are located on the dot plot.	Identify that the dot represents a value on a dot plot.
A.M.1HS.29 Interpret differences in graphs of data sets.	Given representations of data sets, compare and contrast data.	Given representations of data sets, compare similarities of data.	Identify that graphs represent data.
Cluster: Summarize, represent, and interpret da	ta on two categorical and quantitative	e variables.	
A.M.1HS.30 Sort data or objects according to characteristics, similarities, and/or associations. Interpret frequencies in the context of the data (e.g., after surveying students, regarding their favorite ice cream flavor, answer related questions).	Conduct a survey, chart information, and answer questions regarding the information on the chart.	Fill in squares on a graph to represent given data.	Sort data or objects according to given characteristics.
A.M.1HS.31 Represent data of frequency using tally charts in real world situations.	Place tally marks when charting data.	Demonstrates one-to-one correspondence between data and tally marks.	Uses manipulatives to represent a number.

Cluster: Distinguish between cause and effect.			I
A.M.1HS.32	Determine which is the cause and	Identify situations that have cause	Recognize that a change has
In real world situations, distinguish between the cause and the effect.	which is the effect in a real world situation.	and effect outcomes in a real- world situation.	occurred.
Transformations			
Cluster: Experiment with transformations in the	olane.		
A.M.1HS.33	Identify and/or illustrates	Identify images of perpendicular	Identify perpendicular lines,
Know the attributes of perpendicular lines, parallel lines, and line segments; angles; and circles.	perpendicular lines, parallel, line segments, angles, and circles.	lines, parallel, lines, line segments, angles, and circles.	parallel lines, line segments, angles, and circles, given choice(s).
A.M.1HS.34	Use manipulatives to demonstrate	Use manipulatives to demonstrate	Use manipulatives to demonstrate
Using manipulatives, translate, rotate, and/or reflect a geometric figure.	what translate, rotate, and/or reflect mean.	what translate, rotate and/or reflect mean.	what translate, rotate, and/or reflect mean.
A.M.1HS.35	Using manipulatives, place	Given a rotated and/or reflected	When shown examples of reflected
Given a rectangle, parallelogram, trapezoid, or regular polygon manipulative, recognize the rotations and reflections that carry it onto itself.	a rotated and/or reflected manipulative on top of the original to determine if it aligns exactly.	manipulative, the student will determine if it lines up to the original.	and/or rotated manipulatives, the student will determine if it aligns to the original.
A.M.1HS.36	When given shapes that have	When given shapes that have	When given three shapes, identify
Recognize that a geometric shape and its translated/rotated/reflected shape are congruent.	been translated/rotated/reflected, identify the shapes that are congruent.	been translated/rotated/reflected identify the shapes that are the identical in form.	the two congruent (identical) shapes.
A.M.1HS.37	Trace a given geometric shape to	Trace a given geometric shape to	Given a traced shape, demonstrate
Trace a given geometric shape to demonstrate translation, rotation, and/or reflection.	demonstrate translation, rotation, and/or reflection.	demonstrate translation, rotation, and/or reflection.	translation, rotation, and/or reflection.
Cluster: Solve real-world problem situations invo	olving parallel line segments, perpen	dicular line segments, angles, and circ	cles.
A.M.1HS.38	Given real world examples, identify	Match real-world examples of	Using flash cards identify
From a list of examples, identify perpendicular line segments, parallel line segments, angles, and circles. Introduce real world situations involving perpendicular line segments, parallel line segments, angles, and circles (e.g., intersecting or parallel streets).	perpendicular line segments, parallel line segments, angles, and circles.	perpendicular line segments, parallel line segments, angles, and circles.	perpendicular line segments, identify parallel line segments, angles and circles.

Coordinates and Measurement			
Use coordinates and determine area and perimeter.			
A.M.1HS.39 Given coordinates, identify the geometric shapes using proper terminology.	Graph the points from given coordinates and identify shape using proper terminology.	Given points on graph, first predict shape and then connect points to create geometric shape.	Given points on graph, connect points to create geometric shape.
A.M.1HS.40 Find perimeters and areas of squares and rectangles to solve real-world problems.	Using formula and calculator, determine area and perimeter of two dimensional shapes.	Using manipulatives and calculator, determine area and perimeter of two dimensional shapes.	Using manipulatives, represent area of two dimensional shapes.

High School Mathematics II, Integrated Pathway

		Step 3	Step 2	Step 1
Standard		What does it look like?	What does it look like?	What does it look like?
Relationships betwee	n Quantities			
Apply operations of ratio	onal numbers to solve p	roblems.		
A.M.2HS.1		Solve addition, subtraction,	Solve addition and subtraction	Solve addition and subtraction
Solve addition, subtraction division real-world problemumbers and decimals (visuals and/or a calculate	ems involving whole i.e., money) using	multiplication, and division real- world problems using whole numbers and decimals.	real-world problems using whole numbers and decimals.	real-world problems using whole numbers.
Linear Functions and I	Modeling			
Interpret functions that	arise in applications in t	terms of a context.		
A.M.2HS.2 Given a linear function redetermine the rate of chalue. For example:		When given a function represented in a table, calculate the rate of change and fill in the chart with additional values.	When given a function represented in a table, calculate the rate of change.	When given a function represented in a table and given choices, chose the correct number needed to extend the table.
Items Bought	Cost			
1	\$5			
2	\$7			
3				
4	\$11			
	\$13			
6				

Cluster: Construct and compare linear models and solve problems.			
A.M.2HS.6	Given a table representing linear	When given a function represented	
Given two tables representing linear real-world function, determine which is increasing at a greater rate.	real-world , calculate the rate of change and fill in the chart with additional values.	in a table, calculate the rate of change.	in a table and given choices, chose the correct number needed to extend the table.

Expressions and Equations			
Cluster: Interpret the structure of expressions.			
A.M.2HS.7	When given two algebraic	When given two algebraic	When given two algebraic
Given a real-world problem and a choice of two algebraic expressions involving arithmetic operations, identify the algebraic expression that models the situation.	expressions, identify the algebraic expression to model a given realworld problem.	expressions, identify the one with the correct operational symbols.	expressions, identify the expression with the correct numbers.
Cluster: Write expressions in equivalent forms to	o solve problems.		
A.M.2HS.8	Solve an algebraic expression	When given the solution, solve an	Determine what question is being
Solve an algebraic expression involving arithmetic operations to represent a real-world problem (e.g., Jan has \$10. She buys a loaf of bread for \$2 and a gallon of milk. She now has \$5. What is the cost of the milk?)	which represents a real-world problem.	equation to check for accuracy.	asked in a real-world problem.
Cluster: Create equations that describe numbers	or relationships.		
A.M.2HS.9	Solve equations with two	When given the solutions, solve an	Determine what the unknowns
Determine solutions to equations that model real-world problem situations with two unknowns (e.g., given a set of options, find solutions for $x + y + $2 = 6.25).	unknowns when given a set of options.	equation to check for accuracy.	represent in a real-world problem.
A.M.2HS.10	Given a word problem, create	Solve a word problem using multi-	Recognizes a letter can stand for a
Solve multi-step word problems, represent these problems using formulas with a letter standing for the unknown quantity. Assess the reasonableness of answers.	and solve multi-step algebraic equations using a letter for the unknown quantity.	step algebraic equations.	quantity.
Cluster: Solve equations in one variable.			
A.M.2HS.11	Memorize perfect squares to 10.	Create a model or drawing	Use manipulatives to represent
Given choices and use of a calculator, solve quadratic equations in one variable by inspection (e.g., for x² = 49).		demonstrating that a square is a number multiplied by itself.	perfect squares to 10.

Applications of Probability			
Cluster: Make predictions.			
A.M.2HS.12	Answer questions using the words	Given choice(s), determine which is	Given choice(s), determine which is
Make predictions involving real world cause-and-effect situations.	likely or unlikely.	unlikely to occur.	likely to occur.
A.M.2HS.13	Give examples of independent	Given event examples, determine if	Discuss that two events are
Recognize that two events A and B are independent.	events.	they are independent.	independent.
A.M.2HS.14	Determine probability of fair	Discuss whether a method of	Determine method of making fair
Use probabilities to make fair decisions in real world situations (e.g., drawing by lots or using a random number generator).	outcomes when using dice or coin.	selection would be fair.	decisions based on probabilities.
Similarity, Parallel Lines, and Coordinates			
Cluster: Understand similarity in terms of similar	ity transformations.		
A.M.2HS.15	Given shapes, sort based on shape	Given shapes, sort based on size.	Given shapes, sort based on shape.
Given two figures, decide if they are similar.	and size.		
Cluster: Identify congruent angles.			
A.M.2HS.16	Identify congruent angles from	Using rules and generic examples,	Identify angles created by a
Given parallel lines cut by a transversal, identify congruent angles.	given parallel lines cut by a transversal.	match the rule to the specific angles created when transversals cut parallel lines.	transversal cutting through parallel lines.
Cluster: Use coordinates to partition line segmen	nts.		
A.M.2HS.17	Create number line and identify	Given a number line, determine	Count the lines between two given
From a list of several examples of points on a directed line segment between two given points, determine which one partitions the segment in a given ratio. Limit to halves and thirds.	half and third points.	the half and third points on the line.	points of a line segment on a number line.

Measurement and Volume				
Cluster: Use measurement and volume formulas to solve problems.				
A.M.2HS.18 Measure quantities accurately (e.g., follow a recipe).	Choose the measurement tool to use for the situation and designated amount.	Choose the type of measurement tool (e.g., measuring cups for water, tablespoons for spices). May not identify correct measuring cup size.	Given choice(s), select the correct measurement tool for the designated activity.	
A.M.2HS.19 Given a list of volume formulas for cylinders, pyramids, cones, and spheres identify the correct formula to solve real-world problems.	Given a list of volume formulas with pictures for cylinders and pyramids identify the correct formula to solve real-world problems.	Given a list of volume formulas with pictures for cones and spheres identify the correct formula to solve real-world problems.	Given pictures of shapes, choose the shape in a real-world problem.	

High School Mathematics III, Integrated Pathway

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Inferences and Conclusions from Data			
Cluster: Summarize, represent, and interpret date	ta on a single count or measurement v	variable.	
A.M.3HS.1	Set up and collect data involving a	Given a scenario, collect data for a	Perform task to elicit data for
Test predictions involving real-world events (e.g., experimental probability).	predicted event.	given event.	event probability. (e.g. pulling cubes from bag)
Cluster: Understand and evaluate random proces	sses underlying statistical experimen	ts.	
A.M.3HS.2	Answer questions using the words	Given choice(s), determine which is	1 ' ' '
Approximate the likelihood of an event based on its probability (e.g., given a weather forecast, determine if it is likely to rain) and make appropriate real-world choices.	likely or unlikely.	unlikely to occur.	likely to occur.
A.M.3HS.3	Determine source of error and	If prediction was incorrect,	Determine if prediction was
Revise original predictions if necessary when predicting real-world events.	correct prediction for real-world events.	determine source of error.	correct.
Cluster: Make inferences and justify conclusions	from sample surveys, experiments, a	nd observational studies.	
A.M.3HS.4	Answer questions about a given	Describe and discuss results and	Determine which item was more/
Draw conclusions from a given representation of data in real world situations.	representation of data in real world situations.	observations regarding a set of data from real world situations.	less represented from given data sets.
A.M.3HS.5	Draw conclusions from collected	Discuss data collected from	Determine that a small group can
Use data from a survey to make assumptions about a larger population (e.g., from a survey about favorite color given to a small number of students in a school, assume that the results hold for the school).	data to determine if that data would translate to a larger sample size.	smaller sample sizes.	be a representation of a large group.

A.M.3HS.6 Use data from a randomized experiment to make real world predictions.	Predict whether the sample randomized experiment would hold true in other real-world applications.	Answer questions regarding a randomized experiment.	Discuss whether an experiment is randomized or not	
Cluster: Use probability to evaluate outcomes of decisions.				
A.M.3HS.7 Use probabilities to make fair decisions	Determine probability of fair outcomes when using dice or coin.	Discuss whether a method of selection would be fair.	Determine method of making fair decisions based on probabilities.	
A.M.3HS.8 Analyze decisions and outcomes based on probability concepts.	Answer questions on outcomes of choices made from predicted events.	Answer questions about decisions based on probability concepts.	Determine clothing choices based on weather predictions.	

Linear and Polynomial Relationships			
Cluster: Interpret the structure of expressions.			
A.M.3HS.9 Identify an algebraic expression involving arithmetic operations to represent a real-world problem.	Choose the correct algebraic expression with at least one operation to represent a real-world problem.	Choose the correct symbol for an operation to use in real-world problem.	Choose the correct symbol that represents an operation for a realworld problem.
Cluster: Apply rational expressions.			
A.M.3HS.10 In real world problem situations, combine mixed numbers (i.e., recipes). Instructional Note: Limit to halves.	With a calculator, combine mixed numbers.	Using manipulatives to model combining wholes and halves, state the expression	Using manipulatives, combine wholes and halves.
Cluster: Represent and solve equations graphica	lly.		
A.M.3HS.11 Interpret the meaning of the intersection of the two graphs. Instructional Note: Include linear and polynomial functions.	Identify that the point of intersection of two graphs is the solution to both equations.	Identify the ordered pair of the point of intersection.	Identify the point at which two graphs intersect.

Mathematical Modeling			
Create equations that describe numbers or relat	ionships.		
A.M.3HS.12 Create linear equations and inequalities in one variable and use them to solve problems.	Given linear equations and inequalities with one variable and graphic representations, solve real world problems.	Given calculator and formula for linear equations or inequalities with one variable, solve real world problems.	Identify the appropriate equality or inequality sign in an equation.
A.M.3HS.13 Create linear equations in two variables to represent relationships between quantities and graph equations on coordinate axes with labels and scales.	Create two variable linear equations and graph on a coordinate plane.	Given two variable linear equations and graph, describe the results in terms of whether the lines will intersect or be parallel.	Identify lines as being either parallel or intersecting.
Cluster: Interpret functions that arise in applicat	ions in terms of a context.		
A.M.3HS.14 Given real-world measures, demonstrate an understanding of domains and list possible values of domains.	States the correct number of items in each domain regarding the passage of time from minutes in an hour to months in a year as well as the number of single units in a larger unit of measurement.	Sort given items into the correct domain.	Select the correct number of items in a particular domain. (i.e. 7 days in a week)
Cluster: Analyze functions using different represe	entations.		
A.M.3HS.15 Compare and contrast two functions represented in different tables or graphs (e.g., Store A's Discount Table and Store B's Discount Table) to answer questions.	Compare and contrast two functions represented in different tables to answer questions.	Answer questions based on information presented in two tables representing functions.	Identify what information is represented in two tables.

Cluster: Build a function	that models a relationsi	hip between two quantities.		
A.M.3HS.16 Given a real-world situation, complete a given table to answer questions. For example:		Given partial data, complete the remaining parts of the table.	Given a completed table about a real-world situation, answer questions pertaining to the information.	Identify the components of the completed table in relation to a real-world situation.
Items Bought	Cost			
Cluster: Visualize relation	nships between two dim	ensional and three-dimensional obje	cts.	
A.M.3HS.17 Identify the shapes of two sections of three-dimens		Given pictures/graphics of real world objects, match the shapes of two-dimensional cross-sections of three-dimensional objects (e.g. outline of triangle to picture of a pyramid).	Given real world objects, match the shapes of two-dimensional cross-sections of three-dimensional objects (e.g. outline of circle to picture of a ball).	Given real world objects, match the shapes of two-dimensional cross-sections of three-dimensional objects (e.g. ice cube to a square outline).
Cluster: Apply geometric	concepts in modeling si	tuations.		
A.M.3HS.18 Use properties of geometreal world objects.	tric shapes to describe	Given pictures/graphics of real world objects, describe the shape in terms of geometric properties.	Given real world objects, match and discuss the geometric properties of the shapes.	Given real world objects, sort the geometric shapes to their descriptor (e.g. circle to clock face)
		Sketch or create on computer, a scale model of a building and identify various locations and items.	Given scale model/map of a building, identify various locations and items.	Given scale model and pictures of objects, recreate a space they are familiar with.

English/Language Arts • Grade 9

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Reading			
Cluster: Key Ideas and Details			
A.ELA.9.1 Ask and/or answer questions about key ideas; such as who, what, when, and where, to demonstrate understanding of key details and literary text.	Ask or answer literal and inferential questions such as who, what, when, and where, from a literary text. Refer to text for answers.	Ask or answer literal questions such as who, what, when, and where, from a literary text. Refer to text for answers	Given choice(s), identify a character or an idea from a literary text.
A.ELA.9.2 Summarize literary texts using key details from the text, determine the central idea of the story.	Determine central idea of a text, using supporting details.	Given choice(s), select an image or idea related to the text.	Given choice(s), select an image or idea related to the text.
A.ELA.9.3 Describe characters in a literary story (e.g., their traits, motivations, or feelings) and draw on specific details in the literary text (e.g., character's thoughts, words, or action).	Describe characters utilizing text details to justify description.	Describe character traits.	Given choice(s), select a main character.
A.ELA.9.4 Ask and answer questions about key ideas, such as who, what, when, and where to demonstrate understanding of key details in informational texts.	Ask or answer literal and inferential questions, such as who, what, when, and where, from an informational text. Refer to text for answers.	Ask or answer literal questions, such as who, what, when, and where, from an informational text. Refer to text for answers.	Given choice(s), identify a character or idea from an informational text.
A.ELA.9.5 Demonstrate an understanding of the central idea of an informational text; summarize the key details.	Determine central idea of an informational text with supporting details.	Given choice(s), select an image or idea related to the informational text.	Given choice(s), select an image or idea related to the informational text.

A.ELA.9.6 Describe individuals, events, or pieces of information in an informational text and draw on specific details in informational text (e.g., sequence of events, individuals' words or actions).	Describe characters utilizing details from an informational text to justify description.	Describe character traits from an informational text.	Given choice(s), select a character from an informational text.
Cluster: Craft and Structure			
A.ELA.9.7 Determine the meaning of words or phrase in literary text and their impact on meaning and tone.	Describe meaning of words or phrases in literary texts.	Given choice(s), choose the meaning of words or phrases from literary texts.	Given choice(s), select the meaning of words or phrases from literary texts.
A.ELA.9.8 Identify how structure of a literary text creates mystery, tension, or surprise.	Identify story elements that create mystery, tension, or surprise.	Identify a sentence in a literary text that creates mystery, tension, or surprise.	Identify when a text conveys a specific emotion (e.g. utilize emotion cards).
A.ELA.9.9 Identify who is telling the story at various points in a literary text and determine point of view.	Identify the narrator/point of view using specific examples in a literary text.	Identify words that indicate the narrator/point of view in a literary text.	Given choice(s), select who is telling the story in a literary text.
A.ELA.9.10 Identify words or phrases in informational text that suggest meaning and tone.	Indicate words or phrases in informational text that suggest meaning and tone.	Given choice(s), select the words or phrases that suggest meaning and tone from an informational text.	Given choice(s), select the meaning of words or phrases from informational texts.
A.ELA.9.11 Identify how ideas or claims are developed by particular sentence(s) or paragraph(s) of an informational text.	Identify specific sentences which develop the main idea/claim of an informational text.	Given choice(s), identify supporting details to a specific claim from a particular sentence(s) or paragraph(s) of an informational text.	Given choice(s), identify a claim found in an informational text.
A.ELA.9.12 Identify the main purpose of informational text, including what the author wants to answer, explain, or describe.	Identify the main purpose of informational text.	Given choice(s), select an image or idea related to the informational text.	Given choice(s), select an image or idea related to the main purpose/idea of informational text.

Cluster: Integration of Knowledge and Ideas				
A.ELA.9.13 Identify similarities and differences between a literary text and visual elements or multimedia presentations of the literary text to demonstrate understanding of its characters, setting, or plot.	Identify ways in which a literary text is similar and different than the visual or multimedia presentations of the literary text.	Identify whether both the literary text and the visual or multimedia presentations of the literary text contain certain elements.	Given choice(s), identify the literary text, visual element, or multimedia presentation of the text that contains specific detail(s) or element(s).	
A.ELA.9.14 Use information gained from illustrations (e.g., maps or photographs) and/or the words in an informational text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).	Utilizing informational illustrations or text, describe/discuss what inferences can be drawn.	Utilizing informational illustrations with text, determine which one best describes the illustration.	Given choice(s), utilizing informational illustrations with text, determine which one best describes the illustration.	
A.ELA.9.15 Describe how evidence supports specific claims the author makes in an informational text.	Identify specific sentences within an informational text that show support of a specific claim.	Given choice(s), identify which evidence supports a specific claim in an informational text.	Given choice(s), identify an item or idea from an informational text.	

Cluster: Range of Reading and Text Complexity					
A.ELA.9.16 Read and demonstrate understanding of literature, including stories, dramas, and poetry, while engaged in individual or group readings of appropriately challenging literary texts.	Demonstrate an understanding of assigned literary selections.	Given choice(s), identify an understanding of the theme for various stories, dramas, and poetry.	Given choice(s), identify an element of the literary text (e.g. picture, symbol, or word).		
A.ELA.9.17 Read and demonstrate understanding of appropriately challenging informational texts, including social studies, science, and technical texts, while engaged in individual or group readings.	Demonstrate an understanding of assigned informational texts, including social studies, science, and technical texts.	Given choice(s), identify an understanding of the theme/concept/idea for various informational texts, including social studies, science, and technical texts.	Given choice(s), identify an element of the informational texts (e.g. picture, symbol, or word).		

Writing			
Cluster: Text Types and Purposes			
A.ELA.9.18 Use drawing, dictating, and/or writing to compose opinion pieces by introducing the topic or name of the text being discussed, stating an opinion, and supply a reason for the opinion; provide a sense of closure.	Given text on a topic, indicate opinion and reason through drawing, dictation, and/or writing.	Given text on a topic, indicate opinion through drawing, dictation, and/or writing.	Given choice(s), indicate preference.
A.ELA.9.19 Use drawing, dictating, and/or writing to compose informative/explanatory texts by introducing a topic and using facts and definitions to develop points; provide a sense of closure.	Given facts and definitions on a topic, create informative/ explanatory texts and justify reasoning through drawing, dictation, and/or writing.	Given facts and definitions on a topic, create informative/ explanatory text through drawing, dictation, and/or writing.	Given information on a specific topic, identify a related drawing, orally recorded passage, and/or writing.
A.ELA.9.20 Use drawing, dictating and/or writing to narrate a well-elaborated event or short sequence of events, including details to describe actions, thoughts, or feelings; provide a sense of closure.	Create a sequence of events providing a detailed description of actions, thoughts, or feelings with a clear beginning, middle, and ending.	Given at least three sentence strips or pictures, identify a sequence of events showing beginning, middle, and end.	Given pictures, select the beginning and the ending items of a sequence.
Cluster: Production and Distribution of Writing			
A.ELA.9.21 Produce writing in which the development and organization are appropriate to task and purpose.	Produce writing that is organized clearly.	Use a graphic organizer to illustrate development and organization in the writing process.	Given choice(s), identify an item that demonstrates proper use of the writing process.
A.ELA.9.22 Strengthen writing by planning, revising, editing, rewriting, or trying a new approach.	Illustrate the ability to find and fix mistakes in one's own writing.	Illustrate the ability to find and/or fix mistakes in a written document.	Given choice(s), identify the correct punctuation.
A.ELA.9.23 Use a variety of digital tools to produce and publish writing, including collaboration with peers.	With collaboration, create a digital product using information.	With collaboration, type information or input photos relating to a topic into a preset digital tool for production and publishing.	With collaboration, choose a word or picture to input using a digital tool for production and publishing.

Cluster: Research to Build and Present Knowledg	e		
A.ELA.9.24 Conduct a short research project drawing on several sources to answer a question.	Use multiple sources to conduct research on a given topic.	Use multiple sources to fill in a graphic organizer on a given topic.	Given choice(s), choose a picture or word that relates to a given topic in research material.
A.ELA.9.25 Recall information from experiences or gather information from print and digital sources; sort evidence into provided categories.	After gathering information, sort the information into provided categories.	Sort given information into specific categories.	Given choice(s), choose a photo or word that represents a provided category.
A.ELA.9.26 Draw evidence from literary or informational texts to support writing.	Use evidence from given text to support writing.	Choose the appropriate information from a text to support an idea.	Given choice(s), choose a photo or word that was referred to in the text.
 Apply grade 9 reading standards to literary (e.g., "identify who is telling the story at various points in a literary text and determine point of view"). 			
 Apply grade 9 reading standards to nonfiction and other informational texts (e.g., "identify how ideas or claims are developed by particular sentence(s) or paragraph(s) of an informational text"). 			
Cluster: Range of Writing			
A.ELA.9.27 Write routinely for a range of discipline-specific tasks, purposes, and audiences.	Complete writing assignments on a routine basis.	Convey ideas, either in written or pictorial format.	Identify an item/event/reason to write about.

Speaking and Listening				
Cluster: Comprehension and Collaboration				
A.ELA.9.28 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on a variety of grade 9 topics and issues and appropriately challenging texts.	Participate in group discussions by staying on topic, listening to peers, and responding appropriately using proper conversational etiquette and rules.	Participate in group discussions by staying on topic, listening to peers, and responding appropriately.	Engage or listen during discussions.	
 Follow agreed-upon rules for discussions (e.g., listening to others with care and speaking one at a time about the topics and texts under discussion). 				
 Respond appropriately to the comments of others through two or more exchanges. Ask questions to clear up any confusion about the topics and texts under discussion. 				
A.ELA.9.29 Given information presented in diverse media or format, determine the main ideas and supporting details.	Determine the main idea(s) of diverse media presentations.	Given information presented in single media or format, determine a single main idea.	Given choice(s), choose an item which represents a topic.	
A.ELA.9.30 After listening to a speaker, ask questions to demonstrate level of comprehension, gather additional information, or deepen understanding of a topic or issue.	Formulate and ask questions of a speaker to gather additional information or understanding.	Given a set of questions, choose an appropriate question for a speaker.	Given choice(s), choose a question for a speaker.	
Cluster: Presentation of Knowledge and Ideas				
A.ELA.9.31 Speaking audibly, report on a topic or text, and/or tell a story or recount an experience with appropriate facts and relevant, descriptive details.	Present relevant information with supportive detail.	Present at least one supportive detail on a given event.	Given choice(s), choose an item/ topic to share with an audience.	

A.ELA.9.32 Include multimedia components (e.g., graphics, images, music, and/or sound) and visual displays in presentations to enhance ideas, thoughts, and feelings.	Present information using multimedia components to enhance ideas, thoughts, and feelings.	Present information using multimedia components to share information.	Present pictures or other multimedia components.
A.ELA.9.33 Speak in complete sentences when appropriate to task and situation in order to provide requested detail or clarification.	Use complete sentences to provide requested detail or clarification.	Respond to a request appropriately.	Use a word or symbol representation for communication.
Language			
Cluster: Conventions of Standard English			
A.ELA.9.34	Communicate ideas and needs	Communicate ideas and needs	Communicate needs and wants.
Demonstrate understanding of the conventions of Standard English grammar and usage when writing or speaking.	without grammatical errors.	with minor grammatical errors.	
 Use nouns, pronouns, verbs, adjectives, and adverbs. 			
Form and use regular and irregular plural nouns.			
Form and use regular and irregular verbs.			
 Form and use the simple (e.g., I walked; I walk; I will walk) verb tenses. 			
· Ensure subject-verb agreement.			
 Use coordinating and subordinating conjunctions to produce simple, and compound and/or complex sentences. 			

A.ELA.9.35	Communicate ideas in writing using sentence variety, proper punctuation, and correct spelling.	Communicate ideas in writing using simple sentences with proper punctuation.	Given example sentence(s), choose the item that follows the rules of standard English.
Demonstrate understanding of conventions of Standard English capitalization, spelling, and punctuation when writing.			
Use commas properly with a coordinating or subordinating conjunction when creating compound or complex sentences.			
Cluster: Knowledge of Language			
A.ELA.9.36	Communicate effectively	Communicate effectively in	Communicate using one word,
Use knowledge of language and its conventions when writing, speaking, reading, or listening.	in numerous situations, demonstrating the knowledge that language changes with context.	numerous situations, but without changing (formal vs informal, precision of language, etc.) as context changes.	symbol, or sound.
 Choose words and phrases to convey ideas precisely. 			
· Choose punctuation for effect.			
 Differentiate between contexts that call for formal English (e.g., presenting ideas) and situations where informational discourse is appropriate (e.g., small-group discussion). 			
Cluster: Vocabulary Acquisition and Use			
A.ELA.9.37	Demonstrate correct use of	Engage with provided reference	Given choice(s), identify different
Determine or clarify the meaning of unknown words choosing from a range of strategies:	appropriate reference materials, from a variety of options, to determine or clarify new words	material when encountering and using new words in reading and writing activities.	reference resources (e.g. dictionary, atlas/map book).
 Use context to determine the meaning of unknown words. 	from reading and writing activities.		
 Identify and use roots words and the words that result when affixes are added or removed. 			
 Consult reference materials (dictionaries, online vocabulary supports) to clarify the meaning of unfamiliar words encountered when reading. 			

A.ELA.9.38 Demonstrate understanding of figurative language, word relationship, and nuances in word meanings.	Understand and use figurative language and multiple meaning words.	Given examples and non- examples, identify figurative language examples.	Given choice(s), identify figurative language examples.
Demonstrate understanding of the use of multiple meaning words.			
 Interpret figurative language, including similes and metaphors, in context. 			
A.ELA.9.39 Acquire and accurately use conversational, general academic, and domain-specific words and phrases, including those that signal precise actions, emotions, or states of being (e.g., quizzed, whined, and stammered).	Use appropriate word choices in describing actions, emotions, or states of being.	Given choice(s), effectively communicate.	Indicate a word choice to complete a sentence.

English/Language Arts • Grade 10

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Reading			
Key Ideas and Details			
A.ELA.10.1 Ask and/or answer questions about key ideas; such as who, what, when, and where, to demonstrate understanding of key details in literary text, refer to the text as the basis for the answers.	Ask or answer literal and inferential questions such as who, what, when, and where, from a literary text. Refer to text for answers.	Ask or answer literal questions such as who, what, when, and where, from a literary text. Refer to text for answers.	Given choice(s), identify a character or an idea from a literary text.
A.ELA.10.2 Summarize literary texts using key details from the text; determine the central idea(s) of the story.	Determine central idea of a text with supporting details.	Given choice(s), select an image or idea related to the text.	Given choice(s), select an image or idea related to the text.
A.ELA.10.3 Describe characters in a literary story (e.g. their traits, motivations, or feelings) drawing on specific details in the literary text (e.g. a character's thoughts, words, or actions).	Describe characters utilizing text details to justify description.	Describe character traits.	Given choice(s), select the main character.
A.ELA.10.4 Ask and answer questions about key ideas; such as who, what, when to demonstrate understanding of key details in information texts, refers to the text as the basis for the answers.	Ask or answer literal and inferential questions, such as who, what, when, and where, from an informational text, referring to text for answers.	Ask or answer literal questions, such as who, what, when, and where, from an informational text, referring to text for answers.	Given choice(s), identify a character or idea from an informational text.

A.ELA.10.5	Determine central idea of an	Given choice(s), select an image or	Given choice(s), select an image or
Demonstrate an understanding of the central idea of an informational text; summarize the key details.		idea related to the informational text.	idea related to the informational text.
A.ELA.10.6	Describe characters utilizing	Describe character traits from an	Given choice(s), select the main
Describe individuals, events, or pieces of information in an informational text drawing on specific details in informational text (e.g., sequence of events, individual's words or actions).	details from an informational text to justify description.	informational text.	character from an informational text.
Craft and Structure			
A.ELA.10.7	Describe meaning of words or	Given choice(s), choose the	Given choice(s), select the meaning
Determine the meaning of words or phrases in literary text and their impact on meaning and tone.	phrases in literary texts.	meaning of words or phrases from literary texts.	of words or phrases from literary texts.
A.ELA.10.8	Recognize story elements that	Identify a sentence in a literary text that creates mystery, tension, or surprise.	Recognize when a text conveys a specific emotion (e.g. utilize emotion cards).
Identify how structure of a literary text creates mystery, tension, or surprise.	create mystery, tension, or surprise.		
A.ELA.10.9	Identify the narrator/point of	Identify words that indicate the	Given choice(s), select who is
Identify the points of view of individual characters.	view using specific examples in a literary text.	narrator/point of view in a literary text.	telling the story in a literary text.
A.ELA.10.10	Indicate words or phrases in	Given choice(s), choose the words	Given choice(s), select the
Identify words or phrases in informational text that suggest meaning and tone.	3	or phrases that suggest meaning and tone from an informational text.	meaning of words or phrases from informational texts.
A.ELA.10.11	Identify specific sentences which	Given choice(s), identify supporting	
Identify how ideas or claims are developed by particular sentence(s) or paragraph(s) of an informational text.	develop the main idea/claim of an informational text.	details for a specific claim from a particular sentence(s) or paragraph(s) of an informational text.	found in an informational text.

A.ELA.10.12 Identify the main purpose of informational text, including what the author wants to answer, explain, or describe.	Identify the main purpose of informational text.	Given choice(s), select an image or idea related to an informational text.	Given choice(s), select an image or idea related to the main purpose/idea of an informational text.
Integration of Knowledge and Ideas			
A.ELA.10.13 Identify similarities and differences between a literary text and visual elements or multimedia presentations of the literary text to demonstrate understanding of its characters, setting, or plot.	Identify ways in which a literary text is similar and different than the visual or multimedia presentations of that literary text.	Identify whether both the literary text and the visual or multimedia presentations of the literary text contain similar elements.	Given choice(s), identify the literary text, visual element, or multimedia presentation of the text that contains specific detail(s) or element(s).
A.ELA.10.14 Use information gained from illustrations (e.g., maps or photographs) and/or the words in an informational text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).	Utilizing informational illustrations or text, describe/discuss what inferences can be drawn.	Utilizing informational illustrations with text, determine which one best describes the illustration.	Given choice(s) utilizing informational illustrations with text, determine which one best describes the illustration.
A.ELA.10.15 Describe how evidence supports specific claims the author makes in an informational text.	Identify specific sentences within an informational text that support a specific claim.	Given choice(s), determine which evidence from an information text supports a specific claim.	Given choice(s), identify an item or idea from an informational text.
Range of Reading and Text Complexity			
A.ELA.10.16 Read and demonstrate understanding of literature, including stories, dramas, and poetry, while engaged in individual or group readings of appropriately challenging literary texts.	Demonstrate an understanding of assigned literary selections.	Given choice(s), identify the theme for various stories, dramas, and poetry.	Given choice(s), identify an element of a literary text (e.g. picture, symbol, or word).
A.ELA.10.17 Read and demonstrate understanding of appropriately challenging informational texts, including social studies, science, and technical texts, while engaged in individual or group readings.	Demonstrate an understanding of assigned informational texts, including social studies, science, and technical texts.	Given choice(s), identify the theme/concept/idea for various informational texts, including social studies, science, and technical texts.	Given choice(s), identify an element of an informational text (e.g. picture, symbol, or word).

Writing			
Text Types and Purposes			
A.ELA.10.18 Use drawing, dictating, and/or writing to compose opinion pieces by introducing the topic or name of the text being discussed, stating an opinion, and supply a reason for the opinion; provide a sense of closure.	Given text on a topic, indicate personal opinion and provide a reason through drawing, dictation, and/or writing.	Given text on a topic, indicate personal opinion through drawing, dictation, and/or writing.	Given choice(s), indicate personal preference.
A.ELA.10.19 Use drawing, dictating, and/or writing to compose informative/explanatory texts by introducing a topic and using facts and definitions to develop points; provide a sense of closure.	Given facts and definitions on a topic, create informative/ explanatory texts and justify reasoning through drawing, dictation, and/or writing.	Given facts and definitions on a topic, create informative/ explanatory text through drawing, dictation, and/or writing.	Given information on a specific topic, identify a related drawing, orally recorded passage, and/or writing.
A.ELA.10.20 Use drawing, dictating, and/or writing to narrate a well-elaborated event or short sequence of events, including details to describe actions, thoughts, or feelings; provide a sense of closure.	Create a sequence of events providing detailed description of actions, thoughts, or feelings with a clear beginning, middle, and end.	Given choice(s), identify a sequence of events showing beginning, middle, and end.	Given choice(s), select the beginning and the ending items of a sequence.
Production and Distribution of Writing			
A.ELA.10.21 Produce writing in which the development and organization are appropriate to task and purpose.	Produce writing with clear organization.	Use a graphic organizer to illustrate development and organization in the writing process.	Given choice(s), identify an item that demonstrates proper use of the writing process.
A.ELA.10.22 Strengthen writing by planning, revising, editing, rewriting, or typing a new approach.	Illustrate the ability to find and fix mistakes in their own writing.	Illustrate the ability to find and/or fix mistakes in a provided, written document.	Given choice(s), identify correct punctuation.
A.ELA.10.23 Use a variety of digital tools to produce and publish writing, including collaboration with peers	With collaboration, create a digital product using information.	With collaboration, type information or input photos relating to a topic into a preset digital tool for production and publishing.	With collaboration, choose a word or picture to input using a digital tool for production and publishing.

Research to Build and Present Knowledge				
A.ELA.10.24 Conduct a short research project drawing on several sources to answer a question.	Use multiple resources to conduct research on a given topic.	Use multiple sources to fill in a graphic organizer on a given topic.	Given choice(s), choose a picture or word that relates to a given topic in research material.	
A.ELA.10.25 Recall information from experiences or gather information from print and digital sources; sort evidence into provided categories.	After gathering information, sort the information into established categories.	Sort given information into specific categories.	Given choice(s), choose a photo or word that represents a established category.	
 A.ELA.10.26 Draw evidence from literary or informational texts to support writing. Apply grade 10 reading standards to literature (e.g., "summarize literary texts using key details from the text; determine the central idea(s) of the story"). 	Use evidence from given text to support writing.	Choose the appropriate information from a text to support an idea.	Given choice(s), choose a photo or word that was referred to in the text.	
 Apply grade 10 reading standards to informational texts (e.g., "describe how evidence supports specific claims the author makes in an informational text."). 				
Range of Writing				
A.ELA.10.27 Write routinely for a range of discipline-specific tasks, purposes, and audiences.	Complete writing assignments on a routine basis.	Convey ideas, either in written or pictorial format.	Identify an item/event/reason to write about.	

Speaking and Listening				
Comprehension and Collaboration				
A.ELA.10.28 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on a variety of grade 10 topics and issues and appropriately challenging texts.	Participate in group discussions by staying on topic, listening to peers, and responding appropriately using proper conversational etiquette and rules.	Participate in group discussions by staying on topic, listening to peers, and responding appropriately.	Engage or listen during discussions.	
 Follow agreed-upon rules for discussions (e.g., listening to others with care and speaking one at a time about the topics and texts under discussion). 				
 Respond appropriately to the comments of others through two or more exchanges. 				
 Ask questions to clear up any confusion about the topics and texts under discussion. 				
A.ELA.10.29 Given information presented in diverse media or format, determine the main ideas and supporting details.	Determine the main idea(s) of diverse media presentations.	Given information presented in a single medium or format, determine a single main idea.	Given choice(s), choose item which represents topic.	
A.ELA.10.30 After listening to a speaker, ask questions to demonstrate level of comprehension, gather additional information, or deepen understanding of a topic or issue.	Formulate and ask questions of a speaker to gather additional information or understanding.	Given a set of questions, choose an appropriate question for a speaker.	Given choice(s), choose an appropriate question for speaker.	
Presentation of Knowledge and Ideas				
A.ELA.10.31 Speaking audibly, report on a topic or text and/ or tell a story or recount an experience with appropriate facts and relevant, descriptive details.	Present relevant information with supporting detail.	Present at least one supporting detail on a given event.	Given choice(s), choose item/topic to share with audience.	

A.ELA.10.32 Include multimedia components (e.g., graphics, images, and/or sound) and visual displays in presentations to enhance ideas, thoughts, and feelings.	Present information using multimedia components to enhance ideas, thoughts, and feelings.	Present information using multimedia components to share information.	Present pictures or other multimedia components.
A.ELA.10.33 Speak in complete sentences when appropriate to task and situation in order to provide requested detail or clarification.	Use complete sentences to provide requested detail or clarification.	Respond appropriately to a request	Use a word or pictorial representation for communication.

Language			
Conventions of Standard English			
A.ELA.10.34 Demonstrate understanding of the conventions of Standard English grammar and usage when writing or speaking.	Communicate ideas and needs without grammatical errors.	Communicate ideas and needs with minor grammatical errors.	Communicate needs and wants.
 Use nouns, pronouns, verbs, adjectives, and adverbs. 			
Form and use regular and irregular plural nouns.			
Form and use regular and irregular verbs.			
Form and use the simple (e.g., I walked; I walk; I will walk) verb tenses.			
• Ensure subject-verb agreement.			
 Use coordinating and subordinating conjunctions to produce simple and compound and/or complex sentences. 			

A.ELA.10.35 Demonstrate understanding of conventions of Standard English capitalization, spelling, and punctuation when writing.	Communicate ideas in writing using sentence variety, proper punctuation, and correct spelling.	Communicate ideas in writing using simple sentences with proper punctuation.	Given example sentence(s), choose the item that follows rules of standard English.
 Use commas properly with coordinating or subordinating conjunction when creating compound or complex sentences. 			
 Spell most single-syllable words correctly and apply knowledge of word chunks in spelling longer words. 			
Knowledge of Language			
A.ELA.10.36	Communicate effectively	Communicate effectively in	Communicates using one word,
Use knowledge of language and its conventions when writing, speaking, reading, or listening.	in numerous situations, demonstrating the knowledge that language changes with context.	numerous situations, but without changing language as context changes.	symbol, or sound.
 Choose words and phrases to convey ideas precisely. 			
· Choose punctuation for effect.			
 Differentiate between context that calls for formal English (e.g., presenting ideas) and situations where informational discourse is appropriate (e.g., small-group discussion). 			

Vocabulary Acquisition and Use			
 A.ELA.10.37 Determine or clarify the meaning of unknown words choosing from a range of strategies: Use context to determine the meaning of unknown words. Identify and use root words and the words that result when affixes are added or removed. Consult reference materials (dictionaries, online vocabulary supports) to clarify the 	Demonstrate, for new words in reading and writing activities, the correct use of appropriate reference materials from a variety of options.	Engage with provided reference material when encountering and using new words in reading and writing activities.	Given choice(s), identify different reference resources (e.g. dictionary, atlas/map, book).
meaning of unfamiliar words encountered when reading.		c:	
A.ELA.10.38 Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	Understand and use figurative language and multiple-meaning words.	Given examples and non- examples, identify figurative language samples.	Given choice(s), identify figurative language examples.
 Demonstrate understanding of the use of multiple meaning words. 			
Interpret figurative language, including similes and metaphors, in context.			
A.ELA.10.39 Acquire and accurately use conversational, general academic, and domain-specific words and phrases, including those that signal precise actions, emotions, or states of being (e.g., quizzed, whined, and stammered).	Use appropriate word choices in describing actions, emotions, or states of being.	Indicate a word choice to complete a sentence.	Given choice(s), select a word to complete a sentence.

English/Language Arts • Grade 11

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Reading			
Cluster: Key Ideas and Details			
A.ELA.11.1 Ask and/or answer questions about key ideas; such as who, what, when, and where, to demonstrate understanding of key details in literary text; refer to the next as the basis for the answer.	Ask or answer literal and inferential questions such as who, what, when, and where, from a literary text, referring to text for answers.	Ask or answer literal questions such as who, what, when, and where, from a literary text, referring to text for answers.	Given choice(s), identify a character or an idea from a literary text.
A.ELA.11.2 Summarize literary texts using key details from the text; determine the central idea(s) of the story.	Determine, using supporting details, the central idea of a text.	Given choice(s), select an image or idea related to the text.	Given choice(s), select an image or idea related to the text.
A.ELA.11.3 Describe how characters in a story respond to major events and challenges in literary text.	Describe characters utilizing text details to justify description.	Describe character traits.	Given choice(s), select a main character.
A.ELA.11.4 Ask and answer questions about key ideas; such as who, what, when, where to demonstrate understanding of key details in informational texts referring to the text as the basis for the answers.	Ask or answer literal and inferential questions, such as who, what, when, and where, from an informational text, referring to the text for answers.	Ask or answer literal questions such as who, what, when, and where, from an informational text, referring to the text for answers.	Given choice(s), identify a character or an idea from an informational text.
A.ELA.11.5 Demonstrate an understanding of the central idea of an informational text; summarize the key details.	Determine, suing supporting details, the central idea of an informational text with supporting details.	Given choice(s), select the central idea in an informational text.	Given choice(s), select an image or idea related to the informational text.

A.ELA.11.6 Describe the interactions between two individuals, events, ideas, or pieces of information in an informational text.	Describe interactions utilizing an informational text details to justify description.	Describe interactions from an informational text.	Given choice(s), select an individual event, idea, or a piece of information from an informational text.
Cluster: Craft and Structure			
A.ELA.11.7 Determine the meaning of the words or phrases in literary text and their impact on meaning and tone.	Describe meaning of words or phrases in literary texts.	Given choice(s), select the meaning for words or phrases in literary texts.	Given choice(s), match words or phrases to their meaning in literary texts.
A.ELA.11.8 Identify how specific parts of a literary text contribute to its overall structure.	Recognize story elements that create mystery, tension, or surprise within the overall structure.	Identify a sentence in a literary text that creates mystery, tension, or surprise that contributes within the overall structure.	Given choice(s), recognize when a text conveys a specific emotion (e.g. utilize emotion cards) within the overall structure.
A.ELA.11.9 Identify the points of view of individual characters.	Identify the narrator/point of view in a literary text and support choice using specific examples.	Identify words that indicate the narrator/point of view in a literary text.	Given choice(s), select who is telling the story in a literary text.
A.ELA.11.10 Determine the meaning of words and phrases as they are used in an informational text.	Indicate words or phrases in informational text that suggest meaning and tone.	Given choice(s), choose the words or phrases that suggest meaning and tone from an informational text.	Given choice(s), select the meaning for words or phrases from informational texts.
A.ELA.11.11 Identify how ideas or claims are developed by particular sentence(s) or paragraph(s) of an informational text.	Identify specific sentences which develop the main idea/claim of an informational text.	Given choice(s), identify supporting details to a specific claim from a particular sentence(s) or paragraph(s) of an informational text.	Given choice(s), identify a claim found in an informational text.
A.ELA.11.12 Identify the main purpose of informational text, including what the author wants to answer, explain, or describe.	Identify the main purpose of informational text.	Given choice(s), select an image or idea related to the informational text.	Given choice(s), select an image or idea related to the main purpose/idea of informational text.

Cluster: Integration of Knowledge and Ideas			
A.ELA.11.13 Identify similarities and differences between a literary text and visual elements or multimedia presentations of the literary text to demonstrate understanding of its characters, setting, or plot.	Identify ways in which a literary text is similar and different than the visual or multimedia presentations of the literary text.	Identify whether both the literary text and the visual or multimedia presentations of the literary text contain certain elements.	Given choice(s), select the literary text, visual element, or multimedia presentation of the text that contains specific detail(s) or element(s).
A.ELA.11.14 Use information gained from illustrations (e.g., maps or photographs) and/or the words in an informational text to demonstrate understanding of the text (e.g., where, when, why, ad how key events occur).	Use informational illustrations or text to describe/discuss what inferences can be drawn.	Use informational illustrations with text to determine which one best describes the illustration.	Given choice(s), use informational illustrations with text to determine which one best describes the illustration.
A.ELA.11.15 Describe how evidence supports specific claims the author makes in an informational text.	Identify specific sentences within an informational text that support a specific claim.	Given choice(s), determine which evidence supports a specific claim in an informational text.	Given choice(s), identify an item or idea from an informational text.
Cluster: Range of Reading and Text Complexity			
A.ELA.11.16 Read and demonstrate understanding of literature, including stories, dramas, and poetry, while engaged in individual or group readings of appropriately challenging literary texts.	Demonstrate understanding of assigned literary selection.	Given choice(s), identify the theme for various stories, dramas, and poetry.	Given choice(s), identify an element of the literary text (e.g. picture, symbol, or word).
A.ELA.11.17 Read and demonstrate understanding for appropriately challenging informational texts, including social studies, science, and technical texts, while engaged in individual or group readings.	Demonstrate an understanding of assigned informational texts, including social studies, science, and technical texts.	Given choice(s), identify theme/ concept/idea for various informational texts, including social studies, science, and technical texts.	Given choice(s), identify an element of the informational texts (e.g. picture, symbol, or word).

Writing Cluster: Text Types and Purposes					
A.ELA.11.19 Use drawing, dictating, and/or writing to compose informative/explanatory texts by introducing a topic, using facts and definition to develop points, and providing a sense of closure.	Given facts and definitions for a topic, create informative/ explanatory texts and justify reasoning through drawing, dictation, and/or writing.	Given facts and definitions for a topic, create informative/ explanatory text through drawing, dictation, and/or writing.	Given information on a specific topic, identify a related drawing, orally recorded passage, and/or piece of writing.		
A.ELA.11.20 Use drawing, dictating, and/or writing to narrate a well-elaborated event or short sequence of events, including details to describe actions, thoughts or feelings and providing a sense of closure.	Create a sequence of events providing detailed description of actions, thoughts, or feelings with a clear beginning, middle, and end.	Given choice(s), identify a sequence of events showing beginning, middle, and end.	Given choice(s), select the beginning and the ending items of a sequence.		
Cluster: Production and Distribution of Writing					
A.ELA.11.21 Produce writing in which the development and organization are appropriate to task and purpose.	Produce writing with clear organization.	Use a graphic organizer to illustrate development and organization in the writing process.	Given choice(s), identify an item that demonstrates proper use of the writing process.		
A.ELA.11.22 Strengthen writing by planning, revising, editing, rewriting, or trying a new approach.	Illustrate the ability to find and fix mistakes in their own writing.	Illustrate the ability to find and/ or fix mistakes in a provided document.	Given choice(s), identify an item which provides correct punctuation.		
A.ELA.11.23 Use a variety of digital tools to produce and publish writing, including collaboration with peers.	With collaboration, create a digital product using information.	With collaboration, type information or input photos relating to a topic into a preset digital tool for production and publishing.	With collaboration, choose a word or picture to input using a digital tool for production and publishing.		

Cluster: Research to Build and Present Knowledge					
A.ELA.11.24 Conduct a short research project drawing on several sources to answer a question.	Use multiple sources to conduct research on a given topic.	Use multiple sources to fill in a graphic organizer on a given topic.	Given choice(s), choose a picture or word that relates to a given topic in research material.		
A.ELA.11.25 Recall information from experiences or gather information from print and digital sources; sort evidence into provided categories.	After gathering information, sort the information into provided categories.	Sort given information into specific categories.	Given choice(s), choose a photo or word that represents a provided category.		
A.ELA.11.26 Draw evidence from literary or informational texts to support writing.	Use evidence from given text to support writing.	Choose the appropriate information from a text to support an idea.	Given choice(s), choose a photo or word that was referred to in the text.		
 Apply grade 11 reading standards to literature (e.g., "describe how characters in a story respond to major events and challenges in literary text"). 					
 Apply grade 11 reading standards to nonfiction and other informational texts (e.g., "identify how ideas or claims are developed by particular sentence(s) or paragraph(s) of an informational text). 					
Cluster: Range of Writing					
A.ELA.11.27 Write routinely for a range of discipline-specific tasks, purposes, and audiences.	Complete writing assignments on a routine basis.	Conveys ideas, either in written or pictorial format.	Identify an item/event/reason to write about.		

Cluster: Comprehension and Collaboration					
A.ELA.11.28	Participate in group discussions by	Participate in group discussions by	Engage or listen during		
Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on a variety of grade 11 topics and issues and appropriately challenging texts.	staying on topic, listening to peers, and responding appropriately using proper conversational etiquette and rules.	staying on topic, listening to peers, and responding appropriately.	discussions.		
 Follow agreed-upon rules for discussions (e.g., listening to others with care and speaking one at a time about the topics and texts under discussion). 					
 Respond appropriately to the comments of others through two or more exchanges. 					
 Ask questions to clear up any confusion about the topics and texts under discussion. 					
A.ELA.11.29	Determine the main idea(s) of	Given information presented	Given choice(s), choose an item		
Given information presented in diverse media or format, determine the main idea and supporting details.	diverse media presentations.	in single medium or format, determine a single main idea.	which represents topic.		
A.ELA.11.30	Formulate and ask questions of	Given a set of questions, choose	Given choices(s), choose a		
After listening to a speaker, ask questions to demonstrate level of comprehension, gather additional information, or deepen understanding of a topic or issue.	a speaker to gather additional information or understanding.	an appropriate question for a speaker.	question for a speaker.		
Cluster: Presentation of Knowledge and Ideas					
A.ELA.11.31	Present relevant information with supporting detail.	Present at least one supporting detail on a given event.	Given choices(s), choose item/ topic to share with audience.		
Speaking audibly, report on a topic or text, and/or tell a story or recount an experience with appropriate facts and relevant, descriptive details.					

A.ELA.11.32 Include multimedia components (e.g., graphics, images, music, and/or sound) and visual displays in presentations to enhance ideas, thoughts, and feelings.	Present information using multimedia components to enhance ideas, thoughts, and feelings.	Present information using multimedia components to share information.	Present pictures or other multimedia components.
A.ELA.11.33 Speak in complete sentences when appropriate to task and situation in order to provide requested detail or clarification.	Use complete sentences to provide requested detail or clarification.	Respond appropriately to a request.	Use a word or pictorial representation for communication.
Language			
Cluster: Conventions of Standard English			
A.ELA.11.34	Communicate ideas and needs	Communicate ideas and needs	Communicate needs and wants.
Demonstrate understanding of the conventions of Standard English grammar and usage when writing or speaking.	without grammatical errors.	with minor grammatical errors.	
 Use nouns, pronouns, verbs, adjectives, and adverbs. 			
Form and use regular and irregular plural nouns.			
Form and use regular and irregular verbs.			
 Form and use the simple (e.g., I walked; I walk; I will walk) verb tenses. 			
· Ensure subject-verb agreement.			
 Use coordinating and subordinating conjunctions to produce simple and compound and/or complex sentences. 			

A.ELA.11.35	Communicate ideas in writing	Communicate ideas in writing	Given example sentence(s),
Demonstrate understanding of the conventions of Standard English grammar and usage when writing or speaking.	using sentence variety, proper punctuation, and correct spelling.	using simple sentences with proper punctuation.	choose the item following rules of standard English.
 Use nouns, pronouns, verbs, adjectives, and adverbs. 			
Form and use regular and irregular plural nouns.			
Form and use regular and irregular verbs.			
Form and use the simple (e.g., I walked; I walk; I will walk) verb tenses.			
• Ensure subject-verb agreement.			
 Use coordinating and subordinating conjunctions to produce simple and compound and/or complex sentences. 			
Cluster: Knowledge of Language			
A.ELA.11.36 Use knowledge of language and its conventions when writing, speaking, reading, or listening.	Communicate effectively in numerous situations demonstrating the knowledge that	Communicate effectively in numerous situations, but without changing language as context	Communicate using one word, symbol, or sound.
 Choose words and phrases to convey ideas precisely. 	language changes with context.	changes.	
· Choose punctuation for effect.			
 Differentiate between contexts that call for formal English (e.g., presenting ideas) and situation where informational discourse is appropriate (e.g., small-group discussion). 			

Cluster: Vocabulary Acquisition and Use			
 A.ELA.11.37 Determine or clarify the meaning of unknown words choosing from a range of strategies. Use context to determine the meaning of unknown words. Identify and use root words and the words that result when affixes are added or removed. Consult reference materials (dictionaries, 	Demonstrate, for new words in reading and writing activities, correct use of appropriate reference materials from a variety of options.	Engage with provided reference material when encountering and using new words in reading and writing activities.	Given choice(s), identify different reference resources (dictionary, atlas/map, book)
online vocabulary supports to clarify the meaning of unfamiliar words encountered when reading.			
A.ELA.11.38 Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	Understand and use figurative language and multiple-meaning words.	Given examples and non- examples, identify figurative language examples.	Given choice(s), identify figurative language examples.
 Demonstrate understanding of the use of multiple meaning words. 			
Interpret figurative language, including similes and metaphors, in context.			
A.ELA.11.39 Acquiring and accurately use conversational, general academic, and domain-specific words and phrases, including those that signal precise actions, emotions, or state of being (e.g., quizzed, whined, and stammered).	Uses appropriate word choices when describing actions, emotions, or states of being.	Indicate a word choice to complete a sentence.	Given choice(s), communicate effectively.

English/Language Arts • Grade 12

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Reading			
Cluster: Key Ideas and Details			
A.ELA.12.1 Ask and/or answer questions about key ideas; such as who, what, when, and where, to	Ask or answer literal and inferential questions; such as who, what, when, and where, from a literary text.	Given choice(s), ask or answer literal questions; such as who, what, when, and where, from a literary text.	Given choice(s), identify character or idea from a literary text.
demonstrate understanding of key details in literary text; refer to the text as the basis for the answers.		itterary text.	
A.ELA.12.2	Determine central idea of a text	Given choice(s), select an image or idea related to the text.	Given choice(s), select an image or idea related to the text.
Summarize literary texts using key details from the text; determine the central idea(s).	with supporting details.		
A.ELA.12.3	Describe characters utilizing text	Describe character traits.	Given choice(s), select main character.
Describe how characters in a story respond to major events and challenges in literary text.	details to justify description.		
A.ELA.12.4	Ask or answer literal and	Ask or answer literal "wh"	Given choice(s), identify character
Ask and answer questions about key ideas; such as who, what, when, where to demonstrate understanding of key details in informational texts referring to the text as the basis for the answers.	inferential "wh" questions from an informational text.	questions from an informational text.	or idea from an informational text.
A.ELA.12.5	Determine central idea of an	Given choice(s), select an image or	Given choice(s), select an image or
Demonstrate an understanding of the central idea of an informational text; summarize the key details.	informational text with supporting details.	idea related to the informational text.	idea related to the informational text.

A.ELA.12.6 Describe the interactions between two individuals, events, ideas, or pieces of informational in an informational text.	Describe interactions utilizing an informational text details to justify description.	Describe interactions from an informational text.	Given choice(s), select an individual, event, idea, or piece of information from an informational text.
Cluster: Craft and Structure			
A.ELA.12.7 Determine the meaning of words or phrases in literary texts and their impact on meaning and tone.	Describe literary texts.	Given choice(s), choose the meaning for words or phrases from literary texts.	Given choices, select the meaning for words or phrases from literary texts.
A.ELA.12.8 Identify how specific parts of a literary text contribute to its overall structure.	Identify story elements such as the creation of mystery, tension, or surprise within the overall structure.	Identify a sentence in a literary text that creates mystery, tension, or surprise within the overall structure.	Identify when a text conveys a specific emotion (e.g. utilize emotion cards) within the overall structure.
A.ELA.12.9 Identify the points of view of individual characters.	Identify the narrator/point of view using specific examples in a literary text.	Identify words that indicate the narrator/point of view in a literary text.	Given choice(s), elects who is telling the story in a literary text.
A.ELA.12.10 Determine the meaning of words and phrases as they are used in an informational text.	Indicate words or phrases in informational text that suggest meaning and tone.	Given choice(s), choose the words or phrases that suggest meaning and tone from an informational text.	Given choice(s), select the meaning for words or phrases from informational texts.
A.ELA.12.11 Identify how ideas or claims are developed by particular sentence(s) or paragraph(s) of an informational text.	Identify specific sentences which develop the main idea/claim of an informational text.	Identify supporting details to a specific claim given choices from particular sentence(s) or paragraph(s) of an informational text.	Given choice(s), identify a claim found in an informational text.
I A.ELA.12.12 Identify the main purpose of informational texts, including what the author wants to answer, explain or describe.	Identify the main purpose of informational text.	Given choice(s), select an image or idea related to the informational text.	Given choice(s), select an image or idea related to the main purpose/idea of informational text.

Cluster: Integration of Knowledge and Ideas			
A.ELA.12.13 Identify similarities and differences between a literary text and visual elements or multimedia presentations of the literary text to demonstrate understanding of its characters, setting, or plot.	Identify ways in which a literary text is similar and different than the visual or multimedia presentations of the literary text	Identify whether both the literary text and the visual or multimedia presentations of the literary text contain certain elements.	Identify the literary text, visual element, or multimedia presentation of the text that contains specific detail(s) or element(s).
A.ELA.12.14 Use information gained from illustrations (e.g., maps or photographs) and/or the words in an informational text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).	Utilize informational illustrations or text to describe/discuss what inferences can be drawn.	Utilize informational illustrations with text to determine which one best describes the illustration.	Given choice(s), utilize informational illustrations with text to determine which one best describes the illustration.
A.ELA.12.15 Describe how evidence supports specific claims the author makes in an informational text.	Identify specific sentences within an informational text showing support of a specific claim	Given choice(s), determine which evidence supports a specific claim in an informational text.	Given choice(s), identify an item of idea from an informational text.
Cluster: Range of Reading and Text Complexity			
A.ELA.12.16 Read and demonstrate understanding of literature, including stories, dramas, and poetry, while engaged in individual or group readings of appropriately challenging literary texts.	Demonstrate an understanding of assigned literary selection.	Given choice(s), identify an understanding of the theme for various stories, dramas, and poetry.	Given choice(s), identify an element of the literary text (e.g. picture, symbol, or word).
A.ELA.12.17 Read and demonstrate understanding of appropriately challenging informational texts, including social studies, science.	Demonstrate an understanding of assigned informational texts, including social studies, science, and technical texts.	Given choice(s), identify an understanding of the theme/concept/idea for various informational texts, including social studies, science, and technical texts.	Given choice(s), identify an element of the informational text (e.g. picture, symbol, or word).

Writing					
Cluster: Text Types and Purposes					
A.ELA.12.19	Given text on a topic, indicate	Given text on a topic, indicate	Given choice(s), indicate		
Use drawing, dictating, and/or writing to compose opinion pieces by introducing the topic or name of the text being discussed, stating an opinion, and supplying a reason for the opinion; provide a sense of closure.	opinion and reason through drawing, dictation, and/or writing.	opinion through drawing, dictation, and/or writing.	preference.		
A.ELA.12.20	Create a sequence of events	Given choice(s) identify a sequence	Given choice(s) identify the		
Use drawing, dictating, and/or writing to narrate a well-elaborated event or short sequence of events, including details to describe actions, thoughts, or feelings and providing a sense of closure.	providing detailed description of actions, thoughts, or feelings with a clear beginning, middle, and ending.	of events showing beginning, middle, and end.	beginning and the ending items of a sequence.		
Cluster: Production and Distribution of Writing					
A.ELA.12.21 Produce writing in which the development and organization are appropriate to task and purpose.	Produce writing with clear organization.	Use a graphic organizer to illustrate development and organization in the writing process.	Given choice(s), identify item that demonstrates proper use of the writing process.		
A.ELA.12.22	Illustrate the ability to find and fix	Illustrate the ability to find and/ or fix mistakes in a pre-written document.	Given choice(s), identify the correct punctuation.		
Strengthen writing by planning, revising, editing, rewriting, or trying a new approach.	mistakes in their own writing.				
A.ELA.12.23	With collaboration, create a digital	With collaboration, type	With collaboration, choose a word		
Use a variety of digital tools to produce and publish writing, including collaboration with peers.	product using information.	information or input photos relating to a topic into a preset digital tool for production and publishing.	or picture to input using a digital tool for production and publishing.		
Cluster: Research to Build and Present Knowledg	Cluster: Research to Build and Present Knowledge				
A.ELA.12.24	Use multiple resources to conduct	Use multiple sources to fill in a	Given choice(s), choose a picture		
Conduct a short research project drawing on several sources to answer a question.	research on a given topic.	graphic organizer on a given topic	or word that relates to a given topic in research material.		

A.ELA.12.25 Recall information from experiences or gather information from print and digital sources; sort evidence into provide categories.	After gathering information, sort the information into provided categories.	Sort given information into specific categories.	Given choice(s), choose a photo or word that represents a provided category.
A.ELA.12.26 Draw evidence from literary or informational text to support writing. • Apply grade 12 reading standards to	Use evidence from given text to support writing.	Choose the appropriate information from a text to support an idea.	Given choice(s), choose a photo or word that was referenced in the text.
literature			
Cluster: Range of Writing	T		
A.ELA.12.27 Write routinely for a range of discipline-specific tasks, purposes, and audiences.	Complete writing assignments on a routine basis.	Convey ideas, either in written or pictorial format.	Identify an item/event/reason which to write about.
Speaking and Listening			
Cluster: Comprehension and Collaboration			
A.ELA.12.28 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on a variety of grade 12 topics and issues and appropriately challenging texts.	Participate in group discussions by staying on topic, listening to peers, and responding appropriately using proper conversational etiquette and rules.	Participate in group discussions by staying on topic, listening to peers, and responding appropriately.	Engage or listen during discussions.
 Follow agreed-upon rules for discussions (e.g., listening to others with care and speaking one at a time about the topics and texts under discussion). 			
 Respond appropriately to the comments of others through two or more exchange. 			
A.ELA.12.29	Determine the main idea(s) of	Given information presented in	Given choice(s), choose an item
Given information presented in diverse media or format, determine the main ideas and supporting details.	diverse media presentations.	single media or format, determine a single main idea.	which represents topic.

A.ELA.12.30 After listening to a speaker, ask questions to demonstrate level of comprehension, gather additional information, or deepen understanding of a topic or issue.	Formulate and ask questions of a speaker to gather additional information or understanding.	Given a set questions, choose an appropriate question for a speaker.	Given choice(s), choose a question for a speaker.
Cluster: Presentation of Knowledge and Ideas			
A.ELA.12.31 Speak audibly, report on a topic or text, and/or tell a story or recount an experience with appropriate facts and relevant, descriptive details.	Present relevant information with supportive detail.	Present at least one supportive detail on a given event.	Given choice(s), choose item/topic to share with audience.
A.ELA.12.32 Include multimedia components (e.g., graphics, images, music, and/or sound) and visual displays in presentations to enhance ideas, thoughts, and feelings.	Present information using multimedia components to enhance ideas, thoughts, and feelings.	Present information using multimedia components to share information.	Present pictures or other multimedia components.
A.ELA.12.33 Speak in complete sentences when appropriate to task and situation in order to provide requested detail or clarification.	Use complete sentences to provide requested detail or clarification.	Respond to a request appropriately with words.	Uses a word or pictorial representation for communication.

Language			
Cluster: Conventions of Standard English			
A.ELA.12.34	Communicate ideas and needs	Communicate ideas and needs	Communicate needs and wants.
Demonstrate understanding of the conventions of Standard English grammar and usage when writing or speaking.	without grammatical errors.	with minor grammatical errors.	
 Use nouns, pronouns, verbs, adjectives, and adverbs. 			
Form and use regular and irregular plural nouns.			
Form and use regular and irregular verbs.			
Form and use the simple (e.g., I walked; I walk; I will walk) verb tenses.			
Ensure subject-verb agreement.			
 Use coordinating and subordinating conjunctions to produce simple, and compound and/or complex sentences. 			
A.ELA.12.35	Communicate ideas in writing	Communicate ideas in writing	Given example sentences, choose
Demonstrate understanding of conventions of Standard English capitalization, spelling, and punctuation when writing.	using sentence variety, proper punctuation, and correct spelling.	using simple sentences with proper punctuation.	the item following rules of standard English.
 Use commas properly with a coordinating or subordinating conjunction when creating compound or complex sentences. 			
 Spell most single-syllable words correctly and apply knowledge of word chunks in spelling longer words. 			

Cluster: Knowledge of Language			
A.ELA.12.36	Communicate effectively	Communicate effectively in	Communicate using one word,
Use knowledge of language and its conventions when writing, speaking, reading, or listening.	in numerous situations demonstrating the knowledge that language changes with context.	numerous situations, but without changing as context changes.	symbol, or sound.
 Choose words or phrases to convey ideas precisely. 			
· Choose punctuation for effect.			
 Differentiate between contexts that call for formal English (e.g., presenting ideas) and situations where informal discourse is appropriate (e.g., small-group discussion). 			
Cluster: Vocabulary Acquisition and Use			
A.ELA.12.37	Demonstrate correct usage of	Demonstrate correct usage of	Given choice(s), identify difference reference resources (e.g. dictionary, atlas/map, book)
Determine or clarify the meaning of unknown words choosing from a range of strategies.	appropriate reference materials from a variety of options, for new words in reading and writing activities.	appropriate reference materials from a variety of options, for new words in reading and writing activities.	
 Use context to determine the meaning of unknown words. 			
 Identify and use root words and the words that result when affixes are added or removed. 			
 Consult reference materials (dictionaries, online vocabulary supports) to clarify the meaning of unfamiliar words encountered when reading. 			
A.ELA.12.38	Indicate a word choice to complete	Given examples and non-	Given choice(s), identify figurative
Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	a sentence.	examples, can identify figurative language samples.	language examples.
 Demonstrate understanding of the use of multiple meaning words. 			
Interpret figurative language, including similes and metaphors, in context.			

A.ELA.12.39		Indicate a word choice to complete	
Acquire and accurately use conversational, general academic, and domain-specific words and phrases including those that signal precise actions, emotions, or states of being (e.g., quizzed, whined, and stammered).	conversations.	a sentence.	wants and needs.

Science: Earth and Space Science

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Earth and Space Science			
Space System			
A.K.9.1	Answer questions about lunar	Identify lunar phases, eclipses of	Indicate lunar phases, eclipses of
Use a model of the Earth-Sun-Moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.	phases, eclipses of the sun and moon, and seasons.	the sun and moon, and seasons.	the sun and moon, and seasons.
History of Earth			
A.K.9.2 Use a model to show how constructive forces (e.g., volcanoes) and destructive mechanisms (e.g., weathering, coastal erosions) change Earth's surface.	Create models which demonstrate constructive and destructive forces and relate to changes in Earth's surface.	Given models, determine if the force represented is constructive or destructive.	Identify whether an action is constructive or destructive.
Earth's System			
A.K.9.3 Use evidence to support a claim that one change to Earth's surface can cause other changes over time (e.g., clear cutting a forest will increase erosion, damming a river may stop fish migration).	Given choice(s), identify appropriate evidence which would explain how one change to Earth's surface would cause changes over time.	Given evidence, identify one change to Earth's surface that can cause other changes over time.	Given choice(s) and evidence, identify one change to Earth's surface.
A.K.9.4 Use a model to describe the effects of water on Earth's surface (e.g., weathering, erosion, deposition, sedimentation).	Given choice(s)/options, differentiate between the varying effects that water can have on the Earth's surface.	Given a model, describe the changes evident from the effects of water on Earth's surface.	Given representations and choice(s), identify an effect of water on Earth's surface.

Weather and Climate			
A.K.9.5 Using a model, demonstrate an understanding of how the effects of changes in climate can impact human lives.	Given choice(s)/options, differentiate between the changes in climate that can impact human lives.	Given a model, describe how the effects of changes in climate can impact human lives.	Given representations and choices, identify how the effects of changes in climate can impact human lives.
Human Sustainability			
A.K.9.6 Demonstrate an understanding of how natural hazards have influenced human activity.	Given representation and choice(s), describe how natural hazards influence human activity.	Given representation and choice(s), identify natural hazards and discuss influence on human activity.	Given representations and choice(s), identify natural hazards.
A.K.9.7 Construct an argument for a strategy to conserve, recycle, or reuse resources.	Identify positive reasons for conserving, recycling, and reusing resources.	Identify a strategy to conserve, recycle, or reuse resources.	Answer questions pertaining to conservation, recycling, or reusing resources.
A.K.9.8 Analyze data to determine the effects of a conservation strategy on the level of a natural resource.	Given data, determine the effects of a conservation strategy on the level of a natural resource.	Given data, determine if the effects of a conservation strategy are positive or negative.	Given data, answer questions pertaining to the effects of a conservation strategy.
A.K.9.9 Identity how Earth systems are being modified due to human activity (e.g., mountains removed for mining and building roads, rivers widened for boat transportation, animal populations decreased due to deforestation, fish populations decreased due to over fishing).	Create representations of examples showing how Earth systems are affected by human activity.	Given representations, identify possible changes in Earth systems which could result from human activity.	Given representations, identify changes in systems due to human activity.
Engineering Design			
A.K.9.10 Generate and compare multiple possible solutions to a real-world problem based on how well each is likely to meet the criteria and constraints of the problem.	Create representations which compare solutions to real-world problems.	Given representations, compare solutions to a real-world problem.	Given representations, identify a solution to a real-world problem.

Science Literacy			
Reading: Key Ideas and Details			
A.K.9.11 Follow procedures when taking measurements	Follow a lab activity and collect data using the appropriate	Complete documentation of collected data.	Given steps in an experiment, put them in the proper order.
or carrying out experiments.	measurements.		
Reading: Craft and Structure			
A.K.9.12 Identify the meaning of symbols, key terms, and other domain-specific words and phrases.	Give the definition for specific terms, symbols, and other domain-specific words and phrases.	Match the meaning of symbols, key terms, and other domain-specific words and phrases.	Given a symbol, key term, and other domain-specific words and phrases, choose the correct definition when given choices.
Reading: integration of Knowledge and Ideas			
A.K.9.13 Express information visually (e.g., in a flowchart, diagram, model).	Create graphic representations for given information.	Complete graphic representations for given information.	Identify a flowchart, diagram, or model
Writing: Text Types and Purpose			
A.K.9.14 Compare and contrast discipline-specific content using domain-specific vocabulary to explain the topic.	Create Venn-diagram or other graphic representation to compare and contrast discipline-specific content with domain-specific vocabulary.	Given a list of attributes, identify the similarities and differences between discipline-specific content and domain-specific vocabulary.	Match discipline – specific content with domain – specific vocabulary.
A.K.9.15 Provide an explanation of discipline-specific content using domain-specific vocabulary to explain the topic.	Lead discussions and/or write utilizing discipline-specific content using domain-specific vocabulary to explain the topic.	Participate in discussions and or writing activities utilizing discipline-specific content using domain-specific vocabulary to explain the topic.	Use representations to explain domain-specific vocabulary.

Science: Biology

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Life Science			
Structure and Function			
A.S.10.1 Explain how different organs of the body carry out essential functions of life.	Create presentation explaining functions of body organs.	Identify various organs of the body and their functions.	Match the appropriate organ to its corresponding function.
A.S.10.2 Use a model to illustrate the organization and interaction of major organs into systems (e.g., circulatory, respiratory, digestive, sensory) in the body to provide specific functions.	Explains how body systems are organized and what their functions are.	Match the appropriate organ to the system.	Identify various systems of the body.
A.S.10.3 Collect data from an investigation to show how different organisms react to change (e.g., heart rate increases with exercise, pupils react to light).	Design investigation, complete investigation, and collect data showing how different organisms react to change.	Participate in an investigation and given data from the investigation, show how different organisms react to change.	Participate in an investigation to show how different organisms react to change.

Matter and Energy in Organisms and Ecosystems			
A.S.10.4	Create a model demonstrating	Given a model, answer questions	Order relationships between
Use models to describe the energy transfer from the sun to producers to consumers.	energy transfer from sun to producers to consumers.	about energy transfer from the sun to producers to consumers.	consumers and producers.

Interdependent Relationships in Ecosystems				
A.S.10.5 Use graphical representations to explain changes over time in the population size of an animal species including those on the endangered list.	Using a graphical representation, answer questions pertaining to the changes over time in the population size of an animal species including those on the	Using a graphical representation, discuss the changes over time in the population size of an animal species including those on the endangered list.	Using a graphical representation, identify the change in the population size of an animal species.	
A.S.10.6 Use graphical representations to explain an animal's dependence on its ecosystem (e.g., competition with other organisms, challenges due to climate, availability of land, food, water, shelter).	Using a graphical representation, answer questions to explain an animal's dependence on its ecosystem.	Using a graphical representation, discuss an animal's dependence on its ecosystem.	Using a graphical representation, identify an animal's dependence on its ecosystem.	
A.S.10.7 Evaluate a strategy to protect a species.	Compare strategies to protect a species.	Describe different strategies available to protect a species.	Determine a strategy to protect a species.	
Inheritance and Variation of Traits				
A.S.10.8	Discuss a model of cell growth	Describe a model of cell	Identify a model of cell growth	
Use a model to illustrate how growth occurs when cells multiply.				
A.S.10.9	When given specific traits of	Understand that the trait of an	Given a picture of an adult species,	
Explain why reproduction may or may not result in offspring with different traits.	parents, determine the possible traits of the offspring.	offspring is determined by one allele from each parent.	identify the correct offspring.	
Natural Selection and Evolution				
A.S.10.10	Given an environment, chose the	Select the possible benefits of	Match a specific trait of a species	
Explain how the traits of particular species allow them to survive in their specific environments.	species with the most beneficial traits to survive there.	specific traits in particular species.	to an environment for which it is best designed.	
A.S.10.11	Discuss why the advantageous trait	Determine reasons why a specific	Look at a chart or graph and	
Interpret data sets to identify an advantageous heritable trait.	occurs more frequently.	trait would be advantageous.	determine which trait is found more frequently.	

Engineering, Technology and Applications of	f Science		
Engineering Design			
A.S.10.12 Generate and compare multiple possible solutions to a real-world problem based on how well each is likely to meet the criteria and constraints of the problem.	Given representations, identify a solution to a real-world problem.	Given representations, identify a solution to a real-world problem.	Given representations, identify a solution to a real-world problem.
Science Literacy			
Reading: Key Ideas and Details			
A.S.10.13 Follow procedures when taking measurements or carrying out experiments.	Follow a lab activity and collect data using the appropriate measurements	Complete documentation of collected data.	Given steps in an experiment, put them in the proper order.
Reading: Craft and Structure			
A.S.10.14 Identify the meaning of symbols, key terms, and other domain-specific words.	Give the definition for specific terms, symbols, and other domain-specific words and phrases.	Match the meaning of symbols, key terms, and other domain-specific words and phrases.	Given a symbol, key term, and other domain-specific words and phrases, choose the correct definition when given choices.
Reading: Integration of Knowledge and Ideas			
A.S.10.15 Express information visually (e.g., in a flowchart, diagram, model).	Create graphic representations for given information.	Complete graphic representations for given information.	Identify a flowchart, diagram, or model.
Writing: Text Types and Purposes			
A.S.10.16 Compare and contrast discipline-specific content using domain-specific vocabulary to explain the topic.	Create Venn-diagrams or other graphic representations to compare and contrast disciplinespecific content with domain-specific vocabulary.	Given a list of attributes, identify the similarities and differences between discipline-specific content and domain- specific vocabulary.	Match discipline – specific content with domain – specific vocabulary.
A.S.10.17 Provide an explanation of discipline-specific content using domain-specific vocabulary to explain the topic.	Lead discussions and/or write utilizing discipline-specific content using domain-specific vocabulary to explain the topic.	Participate in discussions and or writing activities utilizing discipline-specific content using domain-specific vocabulary to explain the topic.	Use representations to explain domain-specific vocabulary.

Science: Physical Science

	Step 3	Step 2	Step 1
Standard	What does it look like?	What does it look like?	What does it look like?
Physical Science			
Structure and Properties of Matter			
A.S.11.1	Identify the parts of the atom	Answer questions about a	Participate in a demonstration
Use a model to describe that matter is made of particles too small to be seen.	including nucleus, protons, neutrons, and electrons.	demonstration that shows matter is made of particles too small to be seen.	that shows matter is made of particles too small to be seen (e.g. adding air to expand a basketball, compressing air in a syringe, dissolving sugar in water, and evaporating salt water.)
Chemical Reactions			
A.S.11.2	Create an experiment	Participate in an experiment	Given graphical representations,
Identify the changes that occurred during a chemical reaction.	demonstrating changes that occur during a chemical reaction.	demonstrating changes that occur during a chemical reaction.	match the changes that occur in a chemical reaction.
A.S.11.3	Identify whether a chemical	Answer questions about an activity	Participate in an activity that
Recognize a release or absorption of energy from a chemical reaction.	reaction releases or absorbs energy.	that displays a chemical reaction.	displays a chemical reaction.
Forces and Integrations			
A.S.11.4	Design/record data and evaluate	Participate in experiment	Identify a real-world safety device.
Evaluate the effectiveness of safety devices and design a solution that could minimize the force of a collision.	an experiment demonstrating the effectiveness of different damage minimizing devices.	demonstrating the effectiveness of different damage minimizing devices.	(e.g. helmet, seat belt, parachute)
A.S.11.5	Create a model demonstrating how	Identify materials needed to create	Explore a diagram of how an
Build electromagnets to provide evidence that an electric current can produce a magnetic field.	electromagnets produce electric currents produce a magnetic field.	simple electromagnet experiment.	electromagnetic field is produced (e.g. battery, wire, nails)

Energy			
A.S.11.6 Test and refine a device (e.g., foam, plastic, metal containers, insulated box, or thermos) to either minimize or maximize thermal energy transfer (e.g., keeping liquids hots or cold, allowing liquids to warm or cool quickly, keeping hands warm in cold temperatures).	Identify examples of devices/ materials that minimize or maximize thermal energy transfer. (e.g. sleeve on hot coffee cup)	Test devices that minimize and/or maximize thermal energy transfer.	Explore examples of materials to minimize and/or maximize thermal energy transfer.
A.S.11.7 Investigate and predict the temperatures of two liquids before and after combining to show uniform energy distribution.	Predict the temperatures of two liquids before and after combining to show uniform energy distribution. (e.g. making bathwater comfortable)	Answer questions about the temperatures of two liquids before and after combining to show uniform energy distribution.	Identify that liquids can be varying temperatures.
A.S.11.8 Identify how devices convert one kind of energy to another (e.g., flashlight – stored chemical energy to light and heat energy, toaster – electric energy to heat energy).	Explain process of energy conversion.	Investigate examples of devices that convert one kind of energy to another.	Identify examples of devices that transfer energy.
Waves and Electromagnetic Radiation			
A.S.11.9 Use a model to demonstrate an understanding that waves (e.g., light, sound, radio) are reflected, absorbed, or transmitted through various materials.	Explain how waves can be reflected, absorbed, or transmitted through various materials when given a model. (e.g. slinky, item displacement through water, bending of light waves through prisms)	Answer questions about a demonstration that shows waves can be reflected, absorbed, or transmitted through various materials.	Participate in an activity that demonstrates an understanding that waves reflected, absorbed, or transmitted through various materials.
A.S.11.10 Identify how each of the types of electromagnetic radiation is used or found in our everyday lives.	Answer questions about how each of the types of electromagnetic radiation is used or found in our everyday lives.	Identify graphical representations of electromagnetic radiation.	Identify devices that use electromagnetic radiation (radio, cell phone, X-rays).
A.S.11.11 Provide evidence that shows how some devices use light and soundwaves to transmit and capture information.	Answer questions about examples that use light and soundwaves to transmit and capture information (e.g. TV, computers/internet, radios, cell phones).	Identify devices that use light and soundwaves to transmit and capture information (e.g. TV, computers, radios).	Given choice(s) and/or representations, identify which object uses light and soundwaves to transmit and capture information.

Engineering, Technology and Application Science			
Engineering Design			
A.S.11.12 Compare and contrast several design solutions to identify the best characteristics of each that can be combined in new solution to better meet the criteria for success.	Given representations, identify a solution to a real-world problem.	Given representations, identify a solution to a real-world problem.	Given representations, identify a solution to a real-world problem.

Science Literacy			
Reading: Key Ideas and Details			
A.S.11.13	Follow a lab activity and collect	Complete documentation of	Given steps in an experiment, put
Follow multistep procedures when taking measurements or carrying out experiments.	data using the appropriate measurements	collected data.	them in the proper order.
Reading: Craft and Structure			
A.S.11.14 Identify the meaning of symbols, key terms, and other domain-specific words and phrases.	Give the definition for specific terms, symbols, and other domain-specific words and phrases.	Match the meaning of symbols, key terms, and other domain-specific words and phrases.	Given a symbol, key term, and other domain-specific words and phrases, choose the correct definition when given choices.
Reading: Integration of Knowledge and Ideas			
A.S.11.15	Create graphic representations for	Complete graphic representations	Identify a flowchart, diagram, or
Express information visually (e.g., in a flowchart, diagram, model).	given information.	for given information.	model.
Writing: Text Types and Purposes			
A.S.11.16 Compare and contrast discipline-specific content using well-chosen facts and domain-specific vocabulary to explain the topic.	Create Venn-diagrams or other graphic representations to compare and contrast disciplinespecific content with domain-specific vocabulary.	Given a list of attributes, identify the similarities and differences between discipline-specific content and domain- specific vocabulary.	Match discipline – specific content with domain – specific vocabulary.
A.S.11.17 Provide an explanation of discipline-specific content using well-chosen facts and domain-specific vocabulary to explain the topic.	Lead discussions and/or write utilizing discipline-specific content using domain-specific vocabulary to explain the topic.	Participate in discussions and or writing activities utilizing discipline-specific content using domain-specific vocabulary to explain the topic.	Use representations to explain domain-specific vocabulary.



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