

West Virginia State Science and Engineering Fair

OFFICIAL RESULTS

March 4, 2024

Division I, Animal Science

1st	Scarlett Hayes	Preston County	<i>Which Dog Treats Dogs Like Most?</i>
2nd	Tyler McMillion	Nicholas County	<i>How Do Drinks Affect our Teeth</i>
3rd	Addison Withrow	Mason County	<i>Do You Know Your Dog's Favorite Color?</i>

Division I, Behavioral and Social Sciences

1st	Emmalyn Webb	Greenbrier County	<i>The Turkey Myth</i>
2nd	Annabel Francis Vaughn Veltri	Clara Tidd Harrison County	<i>Level Up Your Game</i>
3rd	Marion Williams	Pendleton County	<i>Taste the Rainbow</i>

Division I, Chemistry

1st	Ayaan Patel	Greenbrier County	<i>Turning Milk Into Plastic</i>
2nd	Caden Pascarella	Wood County	<i>Which natural preservative works best?</i>
3rd	Mollie Wilkinson	Harrison County	<i>My 2 Cents on Cleaning</i>

Division I, Earth and Environmental Sciences

1st	Jacob Heubi	Preston County	<i>Soil Erosion in Motion</i>
2nd	Clacy Fields	Mercer County	<i>Model Water Flow in Rivers</i>
3rd	Kamrie Anderson Alyson Bond	Wood County	<i>Is something "fishy" about this water?</i>

Division I, Energy

1st	Claire Litten	Berkeley County	<i>Electric Slime</i>
2nd	Emma Goodrich	Preston County	<i>Sparks From a Spud</i>
3rd	Austin Taylor Vance Hamrick	Kash Kincaid Clay County	<i>Do Energizer Batteries Keep Going?</i>

Division I, Engineering

1st	Everett Eastman	Jefferson County	<i>What Do Tech Decks Roll Better On?</i>
2nd	Penelope Kemmerer Preston Argabrite	Harrison County	<i>Up UP & Away...</i>
3rd	Carter Lake	Wood County	<i>Water Purification Method: Which is best?</i>

Division I, Material Science

1st	Lillian Walker	Nicholas County	<i>Walking Water</i>
2nd	Alayna Lyons	Wyoming County	<i>Apple of My Eye Test</i>
3rd	Laina Cusack McKena Shay	Ohio County	<i>Potion Power</i>

Division I, Mathematics and Data

2nd	Maggie Evans	Grant County	<i>Popcorn Party</i>
3rd	Jayce Bush	Greenbrier County	<i>Flipping Out: Bottle Flipping</i>

Division I, Medical Sciences

1st	Christian Herron	Grant County	<i>Too Much Sugar!</i>
2nd	Carter Smith	Pocahontas County	<i>Do Video Games Affect Eyesight?</i>
3rd	Joseph Petro	McDowell County	<i>My Pop Has Gas</i>

Division I, Physics and Astronomy

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1st	Carter Lemon	Wood County	<i>Landed or Lost: A Deep Dive Into Fishing Line</i>
2nd	Garrett Maclachlan	Berkeley County	<i>Radioactivity Exposure and Shielding</i>
3rd	Jacob Whisler	Ohio County	<i>Parachutes: Is Bigger Better?</i>

Division I, Plant Science

1st	Emma Young	Nicholas County	<i>Decomposition of Fresh vs Processed Food</i>
2nd	Samantha Tidwell	Berkeley County	<i>How Environmental Factors Affect Plants</i>
3rd	Zoey Brown	Mercer County	<i>Searching For The Sun</i>

Division I, Technology

1st	Brynlee Franklin	Berkeley County	<i>Error 404: Wi-Fi Not Found</i>
2nd	Izabella Suwal	Paris Matney	<i>Farming With Bob</i>
	Kile Minnix		
3rd	Liam Rogosky	Upshur County	<i>The Pig Protector</i>

Division II, Animal Science

1st	Anya Steuer	Jefferson County	<i>Duck, Duck, Chicken</i>
2nd	Ava Kirkpatrick	Mason County	<i>What's Eating our Goats</i>
3rd	Aven Pifer	Adley Ritchie	<i>Predicting Foaling by Milk pH</i>

Division II, Behavioral and Social Sciences

1st	Alex Waskey	Jackson County	<i>Does Candy Make you Smarter?</i>
2nd	Gavin Lockart	Molly Grass	<i>Spot the Bot</i>
	Alex Le		
3rd	Pryce Dejneka	Bryce Sandt	<i>Testing Behavioral Incentives</i>

Division II, Chemistry

1st	Harlan Fravel	Morgan County	<i>Rethink Your Drink</i>
2nd	Nadiya Kerr	Pocahontas County	<i>One Tough Cookie: Finding the Best Baking Powder Substitute</i>
3rd	Madalyn Turner	Raleigh County	<i>What water splits into hydrogen and oxygen better?</i>

Division II, Earth and Environmental Sciences

1st	Kensie Grigsby	Marshall County	<i>Is Your Water Safe to Drink?</i>
2nd	Preston Stover	Raleigh County	<i>All Bottles Up</i>
3rd	Jacob Carsey	Wood County	<i>What is the harm of dumping used motor oil on the ground?</i>

Division II, Energy

1st	Isabella Powell	Morgan County	<i>How Does Water Flow Affect Hydroelectric Power Generation?</i>
2nd	Tayton Martin	Greenbrier County	<i>Wind Turbines: Blade Size vs Power Output</i>
3rd	Carleigh Jo Cochran	Marshall County	<i>Are you Positive You're Getting the Best Bank of your Buck?</i>

Division II, Engineering

2nd	Jaxon Dolan-White	Greenbrier County	<i>N95 Faceoff</i>
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3rd	Brycen Craft	Caden White	Roane County	Magnetic Cars
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Division II, Material Science

1st	Hayden Rector		Roane County	Will It Get Wet?
2nd	Dylan Eye		Pendleton County	Are You a Bethiever
3rd	Stephanie Rollyson		Clay County	Do White Candles Burn Faster Than Colored?

Division II, Mathematics and Data

1st	Amelia Mills		Berkeley County	Logic or Lucky: Wordle Probability
2nd	Gabriel Floyd		Wood County	Game Theory
3rd	Wyatt Lamb		Webster County	Paper vs.iPad

Division II, Medical Sciences

1st	Danica Reed		Jefferson County	Surface Germs
2nd	Aubrey Welch	Kylee Barr	Preston County	What's on the Surface
3rd	Jayden Mathew		Wood County	Does exercise skimp with age?

Division II, Physics and Astronomy

1st	Yashmit Panta		Raleigh County	Science of Energy Demonstrated by a Yo-yo
2nd	Cooper Withrow		Mason County	The Pressure Is On
3rd	Ainslie Koreski		Wood County	Just A Swinging

Division II, Plant Science

2nd	Milea Miihlbach		Jackson County	How soil affects plant growth
3rd	Knox Kelly		Mineral County	How Much is Too Much?

Division II, Technology

1st	James D'Eramo		Wood County	Wacky WiFi
2nd	Levi Chapman	Braxton Pace	McDowell County	Stress Level
3rd	Breslyn McCoy	Christee Coleman	Jefferson County	Human versus AI

Division III, Animal Sciences

1st	Lexi Harper		Kanawha County	Do Pollinator Gardens Require Maintenance in Order to Increase Pollinator Population?
2nd	Joselyn Smith		Morgan County	Operation Ant Elimination
3rd	Keandra Cochran		Berkeley County	Guess Who Has the Most Unique Face?

Division III, Behavioral and Social Sciences

1st	Samantha Mallow	Josie Dillow	Berkeley County	The Heart Pounding Effects of Classroom Tasks
2nd	Stella Rubi		Harrison County	Under Pressure
3rd	Juliette Sakho	Glory Chi	Berkeley County	Check the Tip
	Magdalyn Smith			

Division III, Biochemistry

2nd	Neha Chandrasekar		Kanawha County	The Physiochemical Properties of Over-the-Counter Glucose Tablets
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3rd	Conner Myers	Tristan Rucker	Jefferson County	<i>The 5-Second Rule</i>
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Division III, Biomedical and Health Sciences

1st	Levi Yoder		Preston County	<i>How Age Affects Dexterity</i>
2nd	Evelyn McKinney	Karlee Lusk	Wyoming County	<i>How Does Smoking Affect Lung Capacity?</i>
3rd	Isabella Gillispie	Miranda Smith	Mason County	<i>Hearts and Minds</i>
	Austin McDade			

Division III, Biomedical Engineering

2nd	Alice Petry		Berkeley County	<i>Catching the Criminal with Gel Electrophoresis</i>
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Division III, Cellular and Molecular Biology

1st	Manvitha Sanjaya		Kanawha County	<i>DNA Damage and Repair Mechanism in Duckweed (<i>Spirodela polyrhiza</i>) Under Ultraviolet Radiation (UV-B) Stress</i>
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Division III, Chemistry

1st	Casch Crites	Porter Lott	Mineral County	<i>Hydrogen Production</i>
2nd	Chastity Brockett		Jackson County	<i>Water You Drinking?</i>
3rd	Valencia Kennedy	Coleman Cook	McDowell County	<i>Before and After Stain Disaster</i>

Division III, Computational Biology and Bioinformatics

2nd	Joyce Hu		Monongalia County	<i>Damage Control: How the Alpha/Beta Ratio Affects the EQD2 Dose</i>
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Division III, Earth and Environmental Sciences

1st	Drew Cardis	Louisa Pate	Jefferson County	<i>Water Pollution's Effect on Yeast</i>
2nd	Ollie Morrison		Berkeley County	<i>West Virginia Easter Panhandle Soil Sedimentation Rates</i>
3rd	Brayden Collins		Mason County	<i>Water Filtration for Survival</i>

Division III, Embedded Systems

1st	Emily Lyons	Lauren Staton	Wyoming County	<i>The Ultimate Guide to Sensory Accuracy</i>
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Division III, Energy: Sustainable Materials and Design

1st	Spencer Rhodes	Alexander Horevay	Mineral County	<i>Windy Energy</i>
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Division III, Engineering Technology: Statics and Dynamics

1st	Smit Babariya	James Lewis	Wood County	<i>Reach Into The Mind Phase 2</i>
	Blake Riggs			
2nd	Michael McGraw		Jackson County	<i>Unique approach to the engineering design process</i>
3rd	Maya Panta		Raleigh County	<i>Geothermal Energy: America's Untapped Giant?</i>

Division III, Environmental Engineering

2nd	Ethan White		Preston County	<i>StreampH Exploring Acidity</i>
3rd	Dharani Thangasamy		Kanawha County	<i>The Effect of Ectomycorrhizal Symbiosis with Lavender in Heavy Metal Bioremediation</i>

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Division III, Materials Science

3rd	Lillian Riner	Jefferson County	No More Wet Heads
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Division III, Mathematics

1st	Austin Luo	Monongalia County	Injective Chromatic Index of Packet Radio Networks: Improved Upper Bounds
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Division III, Microbiology

1st	Vinu Chandrasekar	Kanawha County	Does Escherichia Coli Grow Better in Conditions With Organic or Conventional Egg Yolks in Media?
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2nd	Alana O'Sullivan	Jorja Plitong	Berkeley County	Glove Wars
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Division III, Physics and Astronomy

1st	Lauren Shen	Monongalia County	Two-Step X-Ray Transit Identification: Bayesian Block Simplification and Sequential Machine Learning Techniques
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2nd	Shrihan Malkaram	Kanawha County	Determining the Composition of Asteroids Using Computer Science
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3rd	Jaxon Milam	Ohio County	Radio Emissions of Celestial Bodies
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Division III, Plant Sciences

2nd	Holden Custer	Berkeley County	Hopping Up the Growth Charts
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3rd	Mollie Dorsey	William Jarvis	Nicholas County	The Effect of Water Content on Plant Growth
	Matilda Rodebaugh			

Division III, Robotics and Intelligent Machines

1st	Shawn Li	Monongalia County	Teaching TurtleBots to Play Air Hockey: An Imitation Learning Approach
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Division III, Systems Software

1st	Sydney Bostic	Berkeley County	Bridging the Gap using Edtech and AI: Language Proficiency Enhancement
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2nd	Alexis Atkins	Wood County	Encrypt and Decrypt: Using Python to Automate a Substitution Cipher
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Division III, Translational Medical Sciences

2nd	Gabrielle Jefferson	Lily Finley	Mason County	Natural vs Manmade Antibacterials
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3rd	Ryan Chen	Monongalia County	PHQ-ADS Mental Health Analysis of Morgantown Students
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