

West Virginia State Science and Engineering Fair

OFFICIAL RESULTS

March 7, 2022

Division I, Biology A

1st	Mason Shepherd	Preston County	<i>Which Type of Soil is Best For Wheatgrass Growth?</i>
2nd	Bailey Poniris	Morgan County	<i>A Bird's Eye View of Color</i>
3rd	Sebastian Kettler	Ohio County	<i>Right Pawed or Left Pawed?</i>

Division I, Biology B

1st	Gabriel Floyd	Wood County	<i>Optical Illusions</i>
2nd	Aubrie Pompie	Wyoming County	<i>Fidgeting Around with Test Stress</i>
3rd	Kenlie Bell	Berkeley County	<i>Fidgets: Trend or Need?</i>

Division I, Biology C

1st	Bryistol Ellis	Wyoming County	<i>Goldfish Behavior</i>
2nd	Aubrey Norcross	Morgan County	<i>Can You Taste Color?</i>
3rd	Steven Lipps Ivy Gretzinger Martin	Greenbrier County	<i>Behind the Scenes of Stomach Acid</i>

Division I, Chemistry

1st	Zane Murray	Ohio County	<i>Dusting Up on Fingerprints</i>
2nd	Ryker Leonard	Harrison County	<i>Baking Powder! The Rising Super Hero</i>
3rd	Kaitlyn Artrip	Mercer County	<i>Sweet Science</i>

Division I, Earth Science

1st	Dawson Fluharty	Wood County	<i>Rock n Roll: Which Rocks Withstand Weathering the Best?</i>
2nd	Axl Brewer	Berkeley County	<i>What Causes an Earthquake to Have Higher Magnitude?</i>
3rd	Avagail Brown	Mingo County	<i>Could Superman Really Crush Coal into a Diamond</i>

Division I, Energy

1st	James Godby	Greenbrier County	<i>Solar Circuits</i>
2nd	Cyrus Helmick	Calhoun County	<i>Conductor or Insulator</i>
3rd	Elisha Daniels	Mingo County	<i>Homopolar Motor</i>

Division I, Engineering

1st	Katelyn Kerr	Harrison County	<i>Drip Drop Tick Tock: How to Tell Time with a Water Clock</i>
2nd	Andrea Beavers	Mcdowell County	<i>DaVinci's Bridge</i>
3rd	Mollie Brammer Julie Brammer	Ohio County	<i>Keep It Down: Noise Reduction Options for Metal Roofs</i>

Division I, Mathematics and Data

1st	Arabella Webb	Greenbrier County	<i>Probability is not Predictability</i>
2nd	Kruz Brenneman Kynlee Brenneman	Roane County	<i>Skittles Math</i>

Division I, Physics

1st	Asher Worley	Raleigh County	<i>Let's Kick It</i>
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2nd	Easton Besl Brayden Miller	Maddox Cooper	Wyoming County	<i>Big Bubble Blowout</i>
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3rd	Joshua Morgan		Morgan County	<i>Perfect Parachute</i>
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Division I, Technology

1st	Madelyn Tipton	Jolasanmi Aborisade	Mercer County	<i>Kinetic Energy</i>
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3rd	Ella Cusack	Brynley West	Ohio County	<i>The Artistic Robot</i>
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Division II, Biology A

1st	Jacob Smith-Tatham		Preston County	<i>How Does Music Affect Plants?</i>
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2nd	Gracie Conley		Roane County	<i>Fingerprint Analysis</i>
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3rd	Tyler Stover		Raleigh County	<i>Popcorn (Nutrition and Growth)</i>
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Division II, Biology B

1st	Adrian Poellot		Wood County	<i>Rock Paper Scissors</i>
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2nd	Jack Allen		Berkeley County	<i>Is Disney the Happiest Place on Earth?</i>
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3rd	Maria Faulstick		Ohio County	<i>Does COVID-19 Affect Children's Mental Health?</i>
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Division II, Biology C

2nd	Porter Lott		Mineral County	<i>Are Your Teeth Protected?</i>
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Division II, Chemistry

1st	Audrey Smith		Wood County	<i>Amazeballs</i>
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2nd	Leah Skidgel		Marshall County	<i>Spherification</i>
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3rd	Jebediah Frame		Berkeley County	<i>Stress and Body Temperature: Is There a Relationship?</i>
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Division II, Earth Science

1st	Jillian Dillow		Jefferson County	<i>Oil Spill Clean-Up</i>
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2nd	Brooklyn Patterson		Mercer County	<i>The Homemade Battery</i>
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3rd	Pyper Mazarek		Upshur County	<i>Meteorite</i>
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Division II, Energy

1st	Katherine Nichols		Harrison County	<i>Insulator Games: Which Water Bottle Type Best Slows a Change in Water Temperature?</i>
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2nd	Kareena Patel		Raleigh County	<i>Battery Power</i>
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3rd	Patricia Crites		Hardy County	<i>Lemon Made</i>
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Division II, Engineering

2nd	Jaylon Walls	Mason Lester	Wyoming County	<i>The Ball Launcher Challenge</i>
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3rd	John Grosso		Preston County	<i>Solar Light Optimization</i>
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Division II, Materials Science

1st	Anniston Shelton		Wood County	<i>Consumer Science of Popcorn</i>
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2nd	Erika Michaels-Raynor		Mineral County	<i>Does Homemade Shampoo Perform Better than a Store-Bought Shampoo?</i>
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3rd	Hannah Lawrence	Jacob Mullins	Wyoming County	<i>Which Mouth Wash Whitens Best?</i>
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Division II, Mathematics and Data

1st Dawson Riggs Mercer County *Tic Tac Toe Tactics*

Division II, Medical Sciences

1st Madison Roberts Marshall County *What Toothpaste Whitens Teeth the Best?*

2nd Alexandria Evans Wood County *Bubble Trouble*

3rd Brielle Coburn Mercer County *What Drink Stains Your Teeth?*

Division II, Physics

1st Maya Panta Raleigh County *A Change in the Wind: Studying Bernoulli's Principle*

2nd Holden Custer Berkeley County *Does the Amount of Air in a Soccer Ball Affect It's Flight?*

Division II, Technology and Systems

1st Joseph Burton Berkeley County *Which Material is Most Effective at Blocking RFID Signals? Is Your Smart Card Safe?*

2nd Peyton Brown Marshall County *Can I Block Bluetooth Signals*

Division III, Animal Sciences

2nd Madison Clark Savannah Smoot Charleigh Price Wyoming County *Bearded Dragon*

3rd Violet Neff Berkeley County *Changes in Convict Cichlid Coloration as a Result of Environmental Change*

Division III, Behavioral and Social Sciences

1st Abigail Snider Berkeley County *Facial Recognition: The Impact on Identifying People When Features Around the Face are Altered ("Switcharoo... Who Are You?")*

2nd Ryan Minigh Cabell County *Does Practice Impact the Stroop Effect?*

Division III, Biochemistry

1st Brent Marcus Berkeley County *The Effect Initial Temperature Has on Metabolism*

2nd Vivien Canterbury Kanawha County *Which "Biofuels" produce the most energy?*

Division III, Biomedical and Health Sciences

1st Lauren Shen Monongalia County *Analyzing Relationships Among Features of Diabetes-Induced Cerebral Microvascular Diseases Using Causal Inference Methods*

Division III, Chemistry

1st Luke Murphy Raleigh County *What's the Best Electrolyte for Hydrogen Generation?*

2nd Isabella Huesz Julia Hall Berkeley County *The Legend of Coffee Teeth*

3rd Archana Krishnathas Kanawha County *Does the Temperature of Water Change the Chemical Reaction of Luminol?*

Division III, Earth and Environmental Sciences

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1st	Russ Stone	Jefferson County	<i>Styrofoam Compost With Mealworms</i>
2nd	Luke Nunn	Mercer County	<i>Microbial Fuel Cells: Energy Source</i>

Division III, Engineering Technology: Statics and Dynamics

2nd	Eli Dillow	Jefferson County	<i>Static Pile Angle</i>
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Division III, Environmental Engineering

2nd	Grace Yan	Monongalia County	<i>Optimizing School Bus Routes to Reduce the Carbon Footprint of Local High Schools</i>
3rd	Addison Eldridge	Mercer County	<i>A Car that Runs off of Air</i>

Division III, Materials Science

3rd	Evelyn McPherson	Berkeley County	<i>Mask Efficacy</i>
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Division III, Microbiology

3rd	Jeeya Patel	Kanawha County	<i>Antibacterial Effects of Curcuma Longa and Trachyspermum Ammi on Staphylococcus Epidermis</i>
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Division III, Physics and Astronomy

1st	Audrey MacLachlan	Berkeley County	<i>A Measurement of Naturally Occurring Ambient Light Levels Near Peak Wavelength = 540 nm Near Twilight Hours; Is It Darkest Just Before Dawn?</i>
2nd	Makayla Schrader	Raleigh County	<i>Detecting Exoplanets Using Transit Photometry</i>
3rd	Olivia Raber	Wood County	<i>Does Coordinate Type Affect Data in Radio Astronomy?</i>

Division III, Plant Sciences

1st	Neha Chandrasekar	Kanawha County	<i>How Does Aluminum and Acidic Growth Conditions Affect the Growth of Arabidopsis Thaliana?</i>	
2nd	Brady Ott	Eleanor McPherson	Berkeley County	<i>Will a Water, Grape Juice, Vinegar, Coffee, or Hydrogen Peroxide Rinse Affect Whether or Not a Pinto Bean will Sprout? (To Sprout or Not to Sprout)</i>

Division III, Systems Software

1st	Sydney Bostic	Berkeley County	<i>Siblings Safe with LIDAR</i>
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