

West Virginia State Science and ENgineering Fair

OFFICIAL RESULTS

March 7, 2022

Division I, Biology A

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

Division I, Biology B

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

Division I, Biology C

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

Division I, Chemistry

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

Division I, Earth Science

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

Division I, Energy

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

Division I, Engineering

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

Division I, Mathematics and Data

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

Division I, Physics

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

Division I, Technology

3rd	<i>The Artistic Robot</i>	Ella Cusack	Brynley West	Ohio County
1st	<i>Kinetic Energy</i>	Madelyn Tipton	Julia Aborisade	Mercer County

Division II, Biology A

3rd	<i>Popcorn (Nutrition and Growth)</i>	Tyler Stover		Raleigh County
2nd	<i>Fingerprint Analysis</i>	Gracie Conley		Roane County

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1st *How Does Music Affect Plants?*

Jacob Smith-Tatham

Preston County

Division II, Biology B

3rd *Does COVID-19 Affect Children's Mental Health?*

Maria Faulstick

Ohio County

2nd *Is Disney the Happiest Place on Earth?*

Jack Allen

Berkeley County

1st *Rock Paper Scissors*

Adrian Poellot

Wood County

Division II, Biology C

2nd *Are Your Teeth Protected?*

Porter Lott

Mineral County

Division II, Chemistry

3rd *Stress and Body Temperature: Is There a Relationship?*

Jebediah Frame

Berkeley County

2nd *Spherification*

Leah Skidgel

Marshall County

1st *Amazeballs*

Audrey Smith

Wood County

Division II, Earth Science

3rd *Meteorite*

Pyper Mazarek

Upshur County

2nd *The Homemade Battery*

Brooklyn Patterson

Mercer County

1st *Oil Spill Clean-Up*

Jillian Dillow

Jefferson County

Division II, Energy

3rd *Lemon Made*

Patricia Crites

Hardy County

2nd *Battery Power*

Kareena Patel

Raleigh County

1st *Insulator Games: Which Water Bottle Type Best Slows a Change in Water Temperature?*

Katherine Nichols

Harrison County

Division II, Engineering

3rd *Solar Light Optimization*

John Grosso

Preston County

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2nd *The Ball Launcher Challenge*
Jaylon Walls Mason Lester Wyoming County

Division II, Materials Science

3rd *Which Mouth Wash Whitens Best?*
Hannah Lawrence Jacob Mullins Wyoming County

2nd *Does Homemade Shampoo Perform Better than a Store-Bought Shampoo?*
Erika Michaels-Raynor Mineral County

1st *Consumer Science of Popcorn*
Anniston Shelton Wood County

Division II, Mathematics and Data

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

Division II, Medical Sciences

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

2nd *Bubble Trouble*
Alexandria Evans Wood County

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

Division II, Physics

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

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

Division II, Technology and Systems

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

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

Division III, Animal Sciences

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

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

Division III, Behavioral and Social Sciences

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2nd *Does Practice Impact the Stroop Effect?*

Ryan Minigh

Cabell County

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

Abigail Snider

Berkeley County

Division III, Biochemistry

2nd *Which "Biofuels" produce the most energy?*

Vivien Canterbury

Kanawha County

1st *The Effect Initial Temperature Has on Metabolism*

Brent Marcus

Berkeley County

Division III, Biomedical and Health Sciences

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

Lauren Shen

Monongalia County

Division III, Chemistry

3rd *Does the Temperature of Water Change the Chemical Reaction of Luminol?*

Archana Krishnathas

Kanawha County

2nd *The Legend of Coffee Teeth*

Isabella Huesz

Julia Hall

Berkeley County

1st *What's the Best Electrolyte for Hydrogen Generation?*

Luke Murphy

Raleigh County

Division III, Earth and Environmental Sciences

2nd *Microbial Fuel Cells: Energy Source*

Luke Nunn

Mercer County

1st *Styrofoam Compost With Mealworms*

Russ Stone

Jefferson County

Division III, Engineering Technology: Statics and Dynamics

2nd *Static Pile Angle*

Eli Dillow

Jefferson County

Division III, Environmental Engineering

3rd *A Car that Runs off of Air*

Addison Eldridge

Mercer County

2nd *Optimizing School Bus Routes to Reduce the Carbon Footprint of Local High Schools*

Grace Yan

Monongalia County

Division III, Materials Science

3rd *Mask Efficacy*

Evelyn McPherson

Berkeley County

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Division III, Microbiology

- 3rd** *Antibacterial Effects of Curcuma Longa and Trachyspermum Ammi on Staphylococcus Epidermis*
Jeeya Patel Kanawha County

Division III, Physics and Astronomy

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

Division III, Plant Sciences

- 2nd** *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)*
Brady Ott Eleanor McPherson Berkeley County
- 1st** *How Does Aluminum and Acidic Growth Conditions Affect the Growth of Arabidopsis Thaliana?*
Neha Chandrasekar Kanawha County

Division III, Systems Software

- 1st** *Siblings Safe with LIDAR*
Sydney Bostic Berkeley County