



Eastern Panhandle Science and Engineering Fair
Elementary and Middle School Divisions

Held Friday, February 2, 2024 at the Ranson Civic Center

OFFICIAL RESULTS

ELEMENTARY DIVISION

Category Awards

Animal Sciences

- 1st Place - What Treats Make Eggcellent Eggs? by Cameron Fleckenstein, Grade 5, Mill Creek Intermediate School, Berkeley County
- 2nd Place - Bearded Dragons by Adilyn Law and Ella Rigglemen, Grade 5, Maysville Elementary School, Grant County

Behavioral and Social Sciences

- 1st Place - Taste the Rainbow by Marion Williams, Franklin Elementary School, Pendleton County
- 2nd Place - Canine Symphony by Savannah White, Grade 5, Mill Creek Intermediate School, Berkeley County

Chemistry

- 1st Place - Marshmallow Meltdown by Alexander Sullivan, Grade 3, Mill Creek Intermediate School, Berkeley County
- 2nd Place - Going Out with an Explosion by Jude Krywcun and Amy Shankle, Grade 5, C. W. Shipley Elementary School, Jefferson County
- 3rd Place - Jolly Rancher Science by Chloe Wills, Warm Springs Intermediate School, Morgan County

Earth and Environmental Sciences

- 1st Place - Crayon Rock Cycle by Autumn Hill, Grade 4, Orchard View Intermediate School, Berkeley County
- 2nd Place - Vortex by Faith Funk, Grade 5, Maysville Elementary School, Grant County
- 3rd Place - Water Filtration by Stuti Tripathi, Grade 3, Potomack Intermediate School, Berkeley County
- Honorable Mention - The Air Out There by Colton Wilson and Preston Barney, Grade 4, Potomack Intermediate School, Berkeley County

EPSEF '24 OFFICIAL RESULTS (cont.)
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Energy

- 1st Place - Electric Slime by Claire Litten, Grade 4, Mountain Ridge Intermediate School, Berkeley County

Engineering

- 1st Place - What do Tech Decks Roll Better On? by Everett Eastman, Grade 5, C. W. Shipley Elementary School, Jefferson County
- 2nd Place - Jumping Robot by Xander Davis, Warm Springs Intermediate School, Morgan County

Materials Science

- 1st Place - Materials Science Experiment by Harley Bowers, Franklin Elementary School, Pendleton County
- 2nd Place - Which Puppy Pad is More Absorbent? by Jade Blanque and Andee Ross, Paw Paw Elementary School, Morgan County
- 3rd Place - Which Paper is Stronger? by Maddison Coffinberger, Pleasant View Elementary School, Morgan County
- Honorable Mention - Which Water Filter Works Best? by Rylie Harvey and Aaliyah White, Paw Paw Elementary School, Morgan County

Mathematics

- 1st Place - Popcorn Party by Maggie Evans, Grade 4, Maysville Elementary School, Grant County

Medical Science

- 1st Place - Too Much Sugar by Christian Herron, Grade 3, Maysville Elementary School, Grant County
- 2nd Place - Honey and Lemon Makes You Better? by Theo Chew, Grade 5, Morgan Academy, Jefferson County
- 3rd Place - Rethink Your Drink by Tatem Keplinger, Grade 3, Maysville Elementary School, Grant County
- Honorable Mention - Which is Cleaner? Fountain vs. Water Bottle Station by Olivia Caplinger, Franklin Elementary School, Pendleton County

Physics and Astronomy

- 1st Place - Radioactivity Exposure and Shielding by Garrett Maclachlan, Grade 5, Tomahawk Intermediate School, Berkeley County
- 2nd Place - Gauss Gun Magnetic Linear Accelerator by Ross Pownell, Franklin Elementary School, Pendleton County
- 3rd Place - Does Volume Affect Thrust by Parker Zarzycki, Grade 4, Mountain Ridge Intermediate School, Berkeley County

EPSEF '24 OFFICIAL RESULTS (cont.)
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Plant Sciences

- 1st Place - How Environmental Factors Affect Plants by Samantha Pearl, Grade 4, Orchard View Intermediate School, Berkeley County
- 2nd Place - How Does Your Garden Grow? by Daniel Mills, Grade 4, Tomahawk Intermediate School, Berkeley County
- 3rd Place - Measuring Plant Growth Using Different Liquids by Stella Close, Warm Springs Intermediate School, Morgan County

Technology

- 1st Place - Error 404: Wi-Fi Not Found by Brynlee Franklin, Grade 5, Mountain Ridge Intermediate School, Berkeley County

Elementary Division Special Awards

- **Best Application of the Scientific Method** - Error 404: Wi-Fi Not Found by Brynlee Franklin, Grade 5, Mountain Ridge Intermediate School, Berkeley County
- **Best Data Visualization** - Honey and Lemon Makes You Better? by Theo Chew, Grade 5, Morgan Academy, Jefferson County
- **Best Graphic Design** - Radioactivity Exposure and Shielding by Garrett Maclachlan, Grade 5, Tomahawk Intermediate School, Berkeley County
- **Most Creative Physical Model or Apparatus** - Going Out with an Explosion by Jude Krywcun and Amy Shankle, Grade 5, C. W. Shipley Elementary School, Jefferson County
- **Most Surprising or Unexpected Results** - Too Much Sugar by Christian Herron, Grade 3, Maysville Elementary School, Grant County

Elementary Division Grand Prize / Best of Show

- Radioactivity Exposure and Shielding by Garrett Maclachlan, Grade 5, Tomahawk Intermediate School, Berkeley County

MIDDLE SCHOOL DIVISION

Category Awards

Animal Sciences

- 1st Place - Duck, Duck, Chicken by Anya Steuer, Grade 8, Morgan Academy, Jefferson County
- 2nd Place - What Kind of Lights do Cats and Dogs Like Most? by Oakley Burress, Warm Springs Middle School, Morgan County
- 3rd Place - Oh Deer! A Study of Deer Distribution by Evelyn Groff, Grade 6, Shepherdstown Middle School, Jefferson County

EPSEF '24 OFFICIAL RESULTS (cont.)
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Behavioral and Social Sciences

- 1st Place - This or That Fat? by Keagan Bauer, Grade 6, Harpers Ferry Middle School, Jefferson County
- 2nd Place - Mood Boost by Millie Stone, Grade 6, Harpers Ferry Middle School, Jefferson County
- 3rd Place - What's the Best Milk Substitute for Ice Cream? by Olivia Culp and Maya Souders, Warm Springs Middle School, Morgan County

Chemistry

- 1st Place - Rethink Your Drink by Harlan Fravel, Paw Paw School, Morgan County
- 2nd Place - Which Mixture Best Preserves Chicken Breast? by Amelia Mabry, Grade 6, Charles Town Middle School, Jefferson County
- 3rd Place - Effects of Salt and Other Contaminants on Rate of Rusting by Bailey Ryder, Hedgesville Middle School, Berkeley County

Earth and Environmental Sciences

- 1st Place - How Much Calcium Carbonate Do Rocks Have? by Madeline Kline, Grade 6, Charles Town Middle School, Jefferson County
- 2nd Place - Sand Bags Vs. Flood Gates by Aurora Miller, Grade 6, Mountain Ridge Middle School, Berkeley County
- 3rd Place - Weather Folklore: Fact or Fiction by Chloe Kisamore, Pendleton County Middle School, Pendleton County

Energy

- 1st Place - How Does Water Flow Affect Hydroelectric Power Generation? by Isabella Powell, Warm Springs Middle School, Morgan County
- 2nd Place - All Charged Up! by Max Lowe, Grade 8, Hedgesville Middle School, Berkeley County
- 3rd Place - The Power of Us by Thomas Savicki, Warm Springs Middle School, Morgan County

Engineering

- 1st Place - What's Your Angle by John Danzey, Grade 6, Shepherdstown Middle School, Jefferson County
- 2nd Place - Optimum Airplane Material by Cohen McGlaughlin and Alex Jimenez, Grade 7, Mountain Ridge Middle School, Berkeley County
- 3rd Place - Sturdy Bridges: What Type of Bridges are the Strongest? by Michael Dittman, Hedgesville Middle School, Berkeley County

Materials Science

- 1st Place - Are You a Bethiever by Dylan Eye, Pendleton County Middle School, Pendleton County

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- 2nd Place - What Is the Best Insulator? by Leland Donaldson, Grade 6, Harpers Ferry Middle School, Jefferson County
- 3rd Place - Constructed Soundly by Chase Shambaugh, Paw Paw School, Morgan County

Mathematics

- 1st Place - Logic or Lucky: Wordle Probabilities by Amelia Mills, Grade 6, Hedgesville Middle School, Berkeley County
- 2nd Place - The Perfect Flip by Moon Ho, Grade 6, Harpers Ferry Middle School, Jefferson County
- 3rd Place - Test Your Luck by Sam Eason, Pendleton County Middle School, Pendleton County

Medical Science

- 1st Place - Surface Germs by Danica Reed, Grade 8, Morgan Academy, Jefferson County
- 2nd Place - Mario Kart 8 Heart Rate Debate by Jaxson Guenther, Saint Joseph Parish School, Berkeley County
- 3rd Place - Are UV Phone Sanitizers Effective? by Greyson Beckman, Warm Springs Middle School, Morgan County

Physics and Astronomy

- 1st Place - Will the Type of Paper Affect How a Paper Airplane Will Fly? by Ike Jackson, Grade 7, Frankfort Middle School, Mineral County
- 2nd Place - Triboelectricity: It's in the Materials by Samuel Cooper, Grade 7, Shepherdstown Middle School, Jefferson County
- 3rd Place - What Does the Moon's Color Depend On? by Brynn Leicester, Grade 6, Charles Town Middle School, Jefferson County

Plant Sciences

- 1st Place - How Much is Too Much? by Knox Kelly, Grade 7, Frankfort Middle School, Mineral County
- 2nd Place - Which of the Marigold Seeds Grow the Fastest? by Caroline Close, Warm Springs Middle School, Morgan County
- 3rd Place - Succulent Propagation by Cooper Canaday, Grade 6, Wildwood Middle School, Jefferson County

Technology

- 1st Place - Human vs. AI by Breslyn McCoy and Christee Coleman, Grade 7, Shepherdstown Middle School, Jefferson County
- 2nd Place - AI vs Humans: Can You Spot the Difference? by Adri Fennell, Grade 8, Charles Town Middle School, Jefferson County
- 3rd Place - HSL: Color Saturation by Noah Dicken, Grade 8, Frankfort Middle School, Mineral County

EPSEF '24 OFFICIAL RESULTS (cont.)
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Special Awards

- **Best Application of the Scientific Method** - All Charged Up! by Max Lowe, Grade 8, Hedgesville Middle School, Berkeley County
- **Best Data Visualization** - Extending Fall Colors by Shayne Clutter, Pendleton County Middle School, Pendleton County
- **Best Graphic Design** - Duck, Duck, Chicken by Anya Steuer, Grade 8, Morgan Academy, Jefferson County
- **Most Creative Physical Model or Apparatus** - How Do Tensegrity Structures Work by Xavier Smith, Grade 8, Martinsburg North Middle School, Berkeley County
- **Most Surprising or Unexpected Results** - Can You Blame the Burnt Ones? by Angela Mendez, Grade 7, Charles Town Middle School, Jefferson County

Middle School Division Grand Prize / Best of Show

- How Does Water Flow Affect Hydroelectric Power Generation? by Isabella Powell, Warm Springs Middle School, Morgan County

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ENDNOTES:

The 2024 [Eastern Panhandle Science and Engineering Fair](#) is affiliated with the [West Virginia Science and Engineering Fair](#) and the [Society for Science](#).

As a Society Affiliated fair, the first place award winners in each category are nominated to the [Thermo Fisher Scientific Junior Innovators' Challenge \(JIC\)](#), the world's premier science and engineering competition for middle school students.

First place award winners in each category advance to compete in the [West Virginia Science and Engineering Fair](#), to be held March 4, 2024, in Charleston, WV.

More information about the Eastern Panhandle Science and Engineering Fair can be found online at www.epsef.org.

Contact Information: Shane Price, Fair Director shane@epsef.org