

2022 Tidewater Science and Engineering Fair

| 2022 Tidewater Science and Engineering Virtual Fair Award Winners | | | | | |
|---|-----------------------------|--------------|---------|---|--------|
| Junior Division Awards of Excellence | 2nd Award of Excellence | Nathan | Shaw | Optical Sensors in Reduced Air Quality | GMS |
| | Broadcom MASTER's Selectees | Sophia | Rizvi | What's Using My Bandwidth? The Effect of Remote Work and At-Home Entertainment Apps on the Network Bandwidth | GMS |
| | | Nathan | Shaw | Optical Sensors in Reduced Air Quality | GMS |
| | | Ray | Speth | The Effect of Chicken Feed on Egg Production and Mass | YMS |
| | | Megan | Way | The Effect of an Alginate on the Surface Tension of Stomach Acid | TMS |
| Category Winners | | | | | |
| JUNIOR DIVISION: | | | | | |
| Category | Award | Student Name | | Project Title | School |
| Animal Sciences | 1st Place | Ray | Speth | The Effect of Chicken Feed on Egg Production and Mass | YMS |
| | 3rd Place | Lyra | Brown | Worm Bon Appetit | GMS |
| Chemistry | 2nd Place | Evan | Britton | The effects of different beverages on your teeth | GMS |
| | 3rd Place | Arya | Patel | The effect of type of liquid on the rate of corrosion | GMS |
| Computer Science | 1st Place | Sophia | Rizvi | What's Using My Bandwidth? The Effect of Remote Work and At-Home Entertainment Apps on the Network Bandwidth | GMS |
| | 2nd Place | Neel | Dharni | The effect of different materials in front of a WiFi router on the strength of the dBm (decibel milliwatts) signal. | TMS |
| Earth & Planetary Science | 1st Place | William | Ott | The Effect of Temperature on Cloud Formation | GMS |
| | 2nd Place | James | Millard | Coriolis Effect | YMS |
| Electrical & Mechanical Engineering | 1st Place | Nathan | Shaw | Optical Sensors in Reduced Air Quality | GMS |
| | 2nd Place | Madeleine | Parente | The power of steam | GMS |
| | 3rd Place | Dev | Patel | Internet Strength | GMS |

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|----------------------------|-----------|----------|------------|---|-----|
| Materials & Bioengineering | 1st Place | Zachary | Mattson | Which glue is the strongest | YMS |
| | 2nd Place | Aiden | Kagarice | Keeping it cool | YMS |
| | | James | Stephenson | | |
| Energy & Transportation | 2nd Place | Felix | Susta | The effect of temperature on battery life | GMS |
| Mathematical Sciences | 1st Place | Josh | Metz | Dice Probability | YMS |
| | 2nd Place | Ian | Peralta | Different ways to solve the Rubik's cube | GMS |
| | | Esteban | Solano | | |
| Medicine & Health Sciences | 1st Place | Megan | Way | The Effect of an Alginate on the Surface Tension of Stomach Acid | TMS |
| | 3rd Place | Michaela | Mulligan | To Mask or Not to Mask? | YMS |
| Microbiology | 1st Place | Cecily | Wood | Spread Joy, Not Germs! | YMS |
| Physics & Astronomy | 2nd Place | Gracie | Shalz | Pele Conundrum | YMS |
| | 3rd Place | Ryleigh | Sutherland | Super Stretchy Slime | GMS |
| Plant Sciences | 1st Place | Olivia | Bayne | Hydroponics versus Soil growth | YMS |
| | 2nd Place | Trisha | Amin | What Soil Helps Plants Grow More? | YMS |
| | 3rd Place | Suin | Jung | Best LED grow light for vegetative growth | GMS |
| SENIOR DIVISION: | | | | | |
| Biochemistry | 1st Place | Malini | Dharni | The Effect of Calcium Chloride on the Diameter of Blood Clots | THS |
| | 2nd Place | Kadence | Butte | How Different Chemicals in Shampoo Affect Hair Health | THS |
| | | Ava | Lownik | | |
| Chemistry | 2nd Place | Natalie | Neace | The Effect of Popular Sunscreen Brands using UV-Vis Spectroscopy Measuring Light Absorption | THS |
| | | Justin | Zetterwall | | |
| | 3rd Place | Joshua | Way | Water Hardness versus Surfactancy of Detergent | THS |
| Computer Science | 3rd Place | Zahra | Rizvi | Eyes on the Road, not on the Phone: The Effect of Classification Models on Detecting Distracted Driving | YHS |

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|--------------------------|-----------|----------|-------------|---|-----|
| Environmental Management | 1st Place | Aidan | Ord | Type of Filter on Amount of Iron Oxide Removed | YHS |
| | | Syed | Rizvi | | |
| Environmental Sciences | 1st Place | Joshua | Namkoong | Study on Carbon Dioxide Capture Using Electrostatically Charged Mist | THS |
| | 2nd Place | Julia | Skinner | The Effect of Varying Depths on the Biodiversity of Biofilms in the Poquoson River | YHS |
| | 3rd Place | Victoria | Carnahan | Sampled Environmental Conditions of the Lower Chesapeake Bay in Comparison to Ideal Oyster Conditions | THS |
| | | Brendan | Janasiewicz | | |
| Physics & Astronomy | 1st Place | Sara | Fernandez | The effect of temperature on the speed of sound | THS |
| | | Kyle | Ray | | |
| Plant Sciences | 3rd Place | Kalei | South | The Effect of Fish Amoxicillin on the Germination rate of Raphanus sativus seeds | YHS |