**Engineering/Mathematics**

1. \*Benjamin Davis, Development of Low-Cost Consumer Grade Autonomous Robots for Disaster Response and Relief, *Auburn High School*, Auburn
2. \*Akshat Yaparla, Evolution of a Flow Field over a Dynamically Pitching Wing, *Alabama School of Fine Arts*, Birmingham
3. \*Chase Burbank, Scope of Awareness, *Wetumpka High School*, Wetumpka
4. Manav Patel, Coronified Sports*, Wetumpka High School*, Wetumpka
5. Javon Jennings, Using Virtual Machines to Contain Cyber Attacks, *Homeschool*, Huntsville
6. Ashraf Mansour, Development of an Electric Wheelchair with a Wireless Electroencephalography-Based Control System, *Auburn High School*, Auburn
7. Asher Owens, The Water Skipper, *Wetumpka High school*, Wetumpka
8. *Naeim Mahjour*i, Harvesting Energy from Everyday Movements by Developing a Two-Dimensional MXene-Based Triboelectric Nanogenerator,*Auburn High School,* Auburn
9. Ahnaf Hossain, COVID-19 Monitoring Through Twitter Analysis, *Auburn High School,* Auburn

**Environmental**

1. *\*Hailey Holbert*, Sanitation is Key, *Wetumpka High School*, Wetumpka
2. *\*Alan Estrada*, Evolve Our Fuel, *Wetumpka High School*, Wetumpka
3. *\*Avery Pyles*, Light as Air: A Study of How Ultraviolet Light Air Purity, *Wetumpka High School*, Wetumpka
4. *Jordan Jennings*, A Comparison Study of Different Species of Bamboo to Common Woods Used in Building, *Homeschool*, Huntsville
5. *Greta Beumer*, Designing a Handbag Line from Recycled Polyethylene Terephthalate (PET), *Wetumpka High School*, Wetumpka

 **Life Science**

1. *Hannah Grissett*, How Molarity of Sucrose Solutions Affects Osmosis in Celery*, Fairhope High School*, Fairhope
2. *Shivani Babu*, Effects of High-Fat Diet on Phosphoprotein Enriched in Astrocytes-15kD (PEA-15) mRNA and Protein Concentration in the Cerebrum of Mice, *Auburn High School*, Auburn
3. *Bailey Worrell*, Right Vs. Left, *Wetumpka High School*, Wetumpka
4. *Allen Wright*, One Degree Closer to Identifying COVID-19, *Wetumpka High School*, Wetumpka
5. *Pierce Robinson*, The Effects of Water Quality on Opsariichthys uncirostris, *Wetumpka High School*, Wetumpka

 **Medicine Health and Behavioral Science**

1. ***\*H****annah Ashraf*, The Effect of Checkpoint Inhibition on modulating the Hypoxic Tumor Microenvironment, *The Altamont School*, Birmingham
2. *\*Remy Cron*, The Effect of the Splice Mutation intron 1, bp 54, G > T in DOCK8 on DOCK8 Splicing, *Alabama School of Fine Arts*, Birmingham
3. *Ashwin Prabhakar*, 3D Imaging Based Implantable Scaffolds for Wound Healing, *Bob Jones High School*, Madison
4. *Julian Vilardi and Connor Scheeren*, Unmask Your Potential, *Wetumpka High School*, Wetumpka

**Physical Science Earth and Space Science**

1. *\*Michael Fulmer*, Banked Turns Without Friction, Wetumpka High School, Wetumpka
2. *Juliana Boyett*, Investigating the effect of temperature on the pKₐ of acetic acid., Fairhope Highschool, Fairhope
3. *Luke Tessier*, The Study of Reinforced Cable Concrete, Wetumpka High School, Wetumpka
4. *Logan Hammack*, Structural Effectiveness to High Winds Produced by Tornados, *Wetumpka High School*, Wetumpka
5. *Makaila Jennings*, Using the Double Dip Transit Photometry Method to Identify Potential Habitable Planets, Homeschool, Huntsville
6. *Emma Seidel*, Precipitation Prediction with Machine Learning, Alabama School of Fine Arts, Birmingham
* Gorgas finalist