



# The Lion's Roar

Millennium Charter Academy Events Worth Roaring About

December 2018

## MCA Announces Science Fair Winners

MCA is proud to announce our science fair winners. The MCA science fair is an annual event for all students in grades four through eight, and for high school students who choose science fair as their option for a required competition. Winners from the school fair will advance to the regional science fair competition at Appalachian State University.

In the Lower School top honors were awarded to **RD Johnson**, 5<sup>th</sup> grade, for his project entitled "Freeze Your Thirst;" **Taylor Pike**, 5<sup>th</sup> grade for "What Causes Tooth Decay?" **Landon Wood**, 4<sup>th</sup> grade, for "Which Brand Pops Best?" and **Paisley Chilton**, 4<sup>th</sup> grade, for "Does Water Density Affect an Object's Ability to Float?" The Lower School Director's Choice award went to **Morgan Shipley**, 4<sup>th</sup> grade, for her project about "How Does Time Affect Flexibility?" and the Headmaster's Choice award to **Abe Jennings**, 4<sup>th</sup> grade, for his project about "Which Athletic Ball can be Launched the Farthest?"

At the left are (left to right) **RD Johnson**, **Paisley Chilton**, **Morgan Shipley** (front), **Taylor Pike** (back), **Abe Jennings**, and **Landon Wood**. Not pictured is **Korbin Bennett**, 4<sup>th</sup> grade, who received an achievement award for his project entitled "Forensic Fingerprints."

Upper school science fair projects are divided into subject areas.

Students may also choose to write a research paper about their project. While the science fair is under the guidance of the North Carolina Science and Engineering Fair through NC State University, the research paper competition is sponsored by the NC Student Academy of Science through the NC School of Science and Math. Students in the paper competition must present their work to a panel of judges and their peers before moving on to the regional level.

## MCA Upper School Research Paper Competition Winners

### Behavioral Sciences

- 1<sup>st</sup> **Silas Cooper** Light 'em Up
- 2<sup>nd</sup> **Grace Phillips** Under Pressure

### Biological Sciences

- 1<sup>st</sup> **Cheyenne Rogers** Chemo "Therapy"
- 2<sup>nd</sup> **Cesar Gonzalez** How Does Age Affect Memory

### Earth and Environmental Science

- 1<sup>st</sup> **Benjamin Black** I'm a Big Fan! (Wind Turbines)
- 2<sup>nd</sup> **Timothy Tipton** Acid Rain

### Physics and Mathematics

- 1<sup>st</sup> **Owen Greenstreet** Batter Up
- 2<sup>nd</sup> **Phillip Byrd** Wingspan of Airplanes

### Chemistry

- 1<sup>st</sup> **Drake Wardle** Which Method of Oxidizing Copper is Most Effective?
- 2<sup>nd</sup> **Daniel Shinault** Essential Oils and Prevention of Mold



Research paper competition winners are, left to right, **Timothy Tipton**, **Benjamin Black**, **Cesar Gonzalez**, **Daniel Shinault**, **Grace Phillips**, **Cheyenne Rogers**, **Silas Cooper**, **Phillip Byrd**, **Drake Wardle**, and **Owen Greenstreet**.



## MCA Upper School Science Fair Winners

### Biological Science A

- 1<sup>st</sup> **Ellie Hooker** Stained Teeth from Acidity
- 2<sup>nd</sup> **Cora Branch** Which Age Group Remembers the Most?
- 3<sup>rd</sup> **Cesar Gonzalez** How Does Age Affect Memory?

### Biological Science B

- 1<sup>st</sup> **Benjamin Hiatt** What Is the Effect of Homemade Weed Killer on Weed Height?
- 2<sup>nd</sup> **Ava Thomason** How pH Affects Plant Life
- 3<sup>rd</sup> **Laken Warren** Water's Effect on Lima Bean Plants

### Earth and Environmental Science

- 1<sup>st</sup> **Jacob Smith** Shining Light on Our Plastic Production
- 2<sup>nd</sup> **Avery Brintle** Are There Chemicals in Our Rivers?
- 3<sup>rd</sup> **Timothy Tipton** Polluted Precipitation

### Physics and Mathematics

- 1<sup>st</sup> **Eric Sorrell** Paper Airplane Aerodynamics
- 2<sup>nd</sup> **Eliza Kump** Can You Take the Pressure?
- 3<sup>rd</sup> **Kalana Bryant** Hot or Cold?

### Technology/Engineering

- 1<sup>st</sup> **Starling Bullins** Bridge Design
- 2<sup>nd</sup> **Eli Madren** Put Something Warm On!
- 3<sup>rd</sup> **Brody Krakenberg** Battery Voltage Over Time

### Chemistry

- 1<sup>st</sup> **Addisen Key** Rise and Shine, or Not!
- 2<sup>nd</sup> **Natalie Cockerham** Pigment Problems
- 3<sup>rd</sup> **Kate Harrison** What's the Best Yeast Substitute?

### Upper School Director's Choice

- Isaac Shipley** You're a Pain in the Back

### Headmaster's Choice

- Garrett Routh** Radishly Radiant

### High School Science Fair

- 1<sup>st</sup> **Alayna Smith & Madison Lawson**



**Alayna Smith, left, and Madison Lawson, right,** won first place in the high school competition for their project entitled "Playing with Plastic: Can We Save the World?" which focused on reducing waste from plastic straws and producing them from alternate materials.

Upper school science fair winners are front, left to right, **Eli Madren, Benjamin Hiatt, Garrett Routh, Avery Brintle, Brody Krakenberg, Isaac Shipley.** Back, left to right, **Timothy Tipton, Starling Bullins, Addisen Key, Kalana Bryant, Cesar Gonzalez, Ava Thomason, Eric Sorrell, Eliza Kump, Jacob Smith, Cora Branch, Ellie Hooker, Natalie Cockerham, and Laken Warren.** Not pictured is **Kate Harrison.**

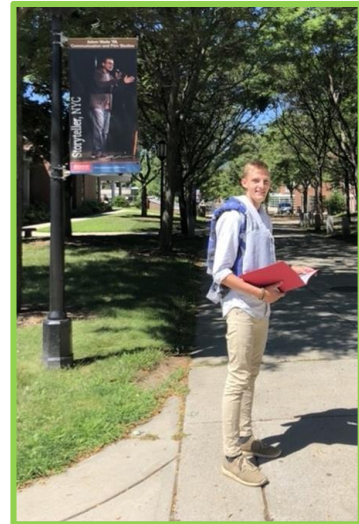


## Early College Acceptances for the Class of 2019



**Jacob Hiatt** (left) has been offered early acceptance at High Point University, as well as been accepted into the Presidential Scholars Program, along with a \$40,000 scholarship over the course of four years. The Presidential Scholars Program recognizes incoming freshmen that demonstrate outstanding achievement, good citizenship, strong leadership, and exceptional scholarship during high school. Additionally, **Jacob** has also been accepted at Western Carolina University.

**Elijah Surrell** (right) has been accepted to Keene State University and is a recipient of the Presidential Scholarship, which provides \$22,000 over the course of four years. This is a merit based scholarship based on grade point average. Keene State is a liberal arts college located in New Hampshire. At the right is a photograph of **Elijah** made on the campus when he was visiting last summer.



## MCA Student Receives Daughters of the American Revolution Award



**Emily Robertson**, 3<sup>rd</sup> from left, attended the chapter meeting of the Daughters of the American Revolution where she received their highest award.

**Emily Robertson** has received the Jonathan Hunt Chapter of the Daughters of the American Revolution Good Citizen award.

This award recognizes and rewards high school seniors who possess the qualities of dependability, service, leadership, and patriotism in their homes, schools, and communities. These students are selected by their teachers and peers because they demonstrate these qualities to an outstanding degree. To receive the award, **Emily** had to complete an application and a timed essay about what challenges America will face in the future,

and she is now eligible for the scholarship portion of the program and will compete at the district level. This is the second consecutive year that a senior from MCA has won the award, which is open to all high school seniors in Surry County.



*We wish all our families a very joyous and safe holiday season, and a happy and prosperous New Year. We'll see everyone back at school on January 7, 2019.*