



The Lion's Roar

December 2013

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Millennium Charter Academy Events Worth Roaring About



Academic Competitions at MCA

The impact of a Millennium Charter Academy education extends far beyond the walls of the school as our students participate and win in academic competitions at the regional, state, and national level. Several competitions have been held during the month of December, and you can meet our academic winners in this edition.

MCA Spelling Bee – Elementary and Middle School

MCA recently hosted the annual spelling bee, and six students will now proceed to the regional spelling bee in early 2014. Winners for grades three through five are 1st place, **Emma Kriek** (5th grade), 2nd place, **Sarah Calloway** (5th grade), and 3rd place, **Belle Fain** (3rd grade). For grades six through eight, winners are 1st place, **Ashton Rierson** (6th grade), 2nd place, **Hemil Hira** (6th grade), and **Erin Duke** (7th grade). Winners from the regional bee will proceed to the Winston-Salem Journal Spelling Bee for a state level competition in the spring.



Elementary bee winners 1st place **Emma Kriek**, 2nd place **Sarah Calloway**, and 3rd place **Belle Fain**.



Middle school bee winners 1st place **Ashton Rierson**, 2nd place **Hemil Hira**, and 3rd place **Erin Duke**.



Elementary Science Fair winners are, back row **Piper Jennings, Emily Richardson, Megan Hutchens, and Abby Simms**. Front row, **Nathan Sapp, Russell Sapp, Dylan Tilley, and Cooper Motsinger**.

Elementary Science Fair Winners

Congratulations to our elementary science fair winners, which were selected on December 2.

- Piper Jennings** - "Mummified" (Biological A)
- Emily Richardson** - "Batteries That Make Cents" (Physics & Physical Science)
- Megan Hutchens** - "Which Towel Absorbs the Most" (Technology/Engineering)
- Abby Simmons** - "Radiant Radish Seeds" (Headmaster's Award) (Biological B)
- Nate Sapp** - "Viscosity: Resisting Flow" (Earth/Environmental)
- Russell Sapp** - "Oxidation: Oxygen Reduction" (Chemistry)
- Dylan Tilley** - "What Do you Think" (Biological B)
- Cooper Motsinger** - "Storage Wars: Tennis Style" (Physics & Physical Science)

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Middle School Science Fair Winners



Back row: Sarah Shepherd, Ben Thomason, Cooper Nester, and Lindley Williams. Front row: Taylor Inman, Laurel Petri, and Drew Tilley

Middle school science fair winners, with their projects are:

- Drew Tilley** "Burning \$\$\$" (Technology & Engineering)
- Laurel Petri** "Juicy Juicy Juice" (Biological B)
- Sarah Shepherd** "To Be or Not to Be" (Biological A) HM state (her board)
- Ben Thomason** "Hot to Touch: How density of a metal affects its fire resistance" (Chemistry)
- Cooper Nester** "High Thrill Science" (Physics & Physical Science)
- Lindley Williams** "Do You Know What You're Rafting In?" (Earth/Environmental)
- Taylor Inman** - Headmaster's Choice "Let's Shed a Little Light on the Subject" (Physics & Physical Science)

Regional Science Fair and Research Paper Competition

The NC Science and Engineering Fair and the NC Student Academy of Science sponsored region seven competitions at Appalachian State University. MCA is proud to have several winners at the regional level! At the middle school level, **Sarah Shepherd** received an honorable mention on her project board, and a third place award in the research paper competition, for her project and paper "To Be or Not To Be", a project to determine whether or not MSG levels in food affect blood sugar levels. Also In the research paper competition, **Drew Tilley** was awarded first place for his project entitled "Burning \$\$\$," a project to determine which grades of gasoline burn most effectively. **Sarah Ray** received first place for her project entitled "What Type Salt Melts Ice Fastest," a project about making roads safer by melting ice more effectively. **Jack Bevard** received a second place award for his paper on how ethanol affected the running time of small 4-stroke engines. **Cooper Nester** received an honorable mention with his work on "High Thrill Science," a project about the angle of a roller coaster drop compared to the length of the drop, and **Lindley Williams**, also received an honorable mention for her work on "Do You Know What You're Rafting In?" which is a project about water quality from the Ararat River. In the elementary science fair division, **Dylan Tilley** received an honorable mention for his project "What Do You Think?" which determined if people who wore glasses were thought more intelligent, and **Cooper Motsinger** received an honorable mention for his project "Storage Wars Tennis Style," which determined the most effective way to store tennis balls and maintain their bounce. **Sarah Ray, Sarah Shepherd, and Drew Tilley** will advance to the state level of the research paper competition, scheduled for March 2014, at the North Carolina School of Science and Math in Durham, NC.



Back row: Sarah Ray, Cooper Nester, Sarah Shepherd, and Lindley Williams. Front row: Dylan Tilley, Drew Tilley, Jack Bevard, and Cooper Motsinger.