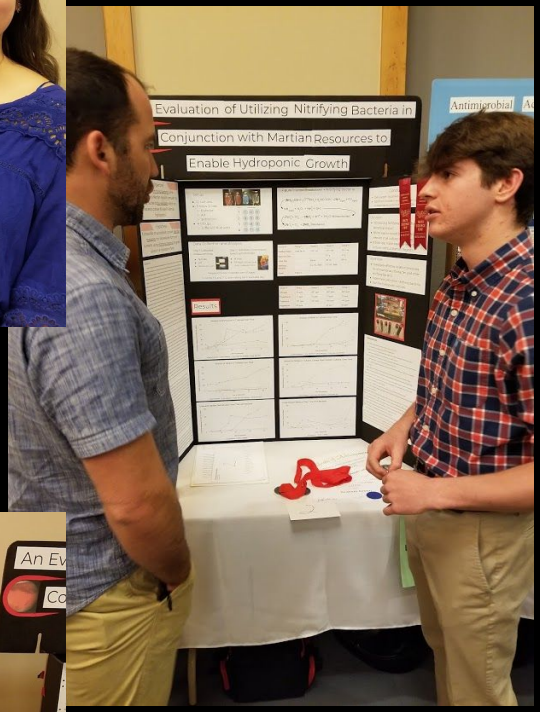
TCS Science & Technology Expo

Congratulations to the following winners of the 2020 District Science Fair & Technology Expo that was held on January 27 at the Transylvania County Library:

SENIOR DIVISION

Projects are from Brevard High School, except for Kupras and Sanders (Physics and Math) below:



<u>Biological Science A</u>

1st Place: Nicole Vargas Sancho, Jarek Stewart Karolewics and Elise Poche: Antimicrobial Activity of Microorganisms Isolated from Western North Carolina Mushrooms

2nd Place: Isaiah Lefler and Graham Green: An Evaluation of Utilizing Nitrifying Bacteria in Conjunction with Martian Resources to Enable Hydroponic Growth

<u>Biological Science B</u>

1st Place: Fritz Ruppert and Jon Gibson: Evaluation of the Role of Cryptochromes in Culex quinquefasciatus Magnetoreception

Physics and Math

1st Place: Josh Kupras and Heath Sanders: Evaluating the Efficiency of Using Martian Materials as Fuel to Reach Martian Orbit

Technology

1st Place: Kathryn Hart and Andy McKibbon: Developing Computational Models Using Deep Learning Softwares to Identify Individuals Within the Eastern Spotted Skunk Species

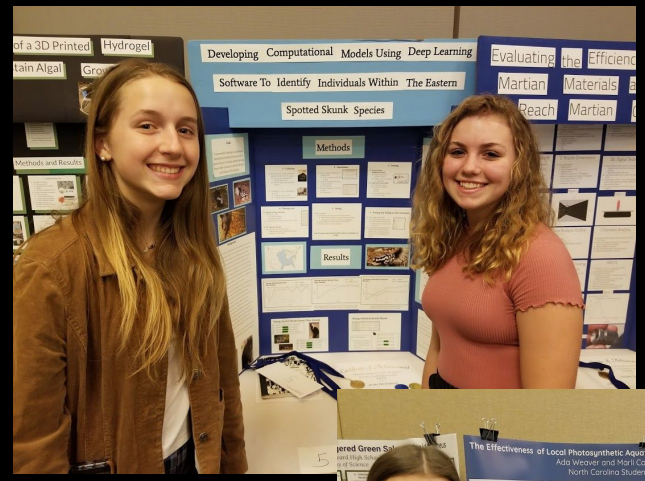
Engineering

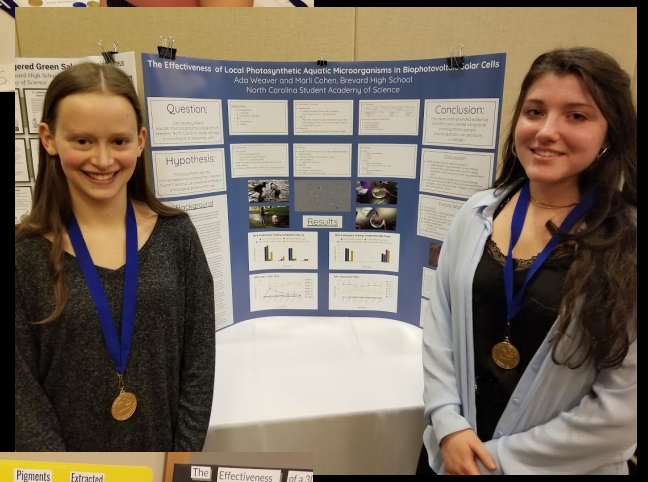
1st Place: Frank Parsons, Ben Caroway, and Satchel Malo: The Effectiveness of a 3D Printed Hydrogel to Sustain Algal Growth

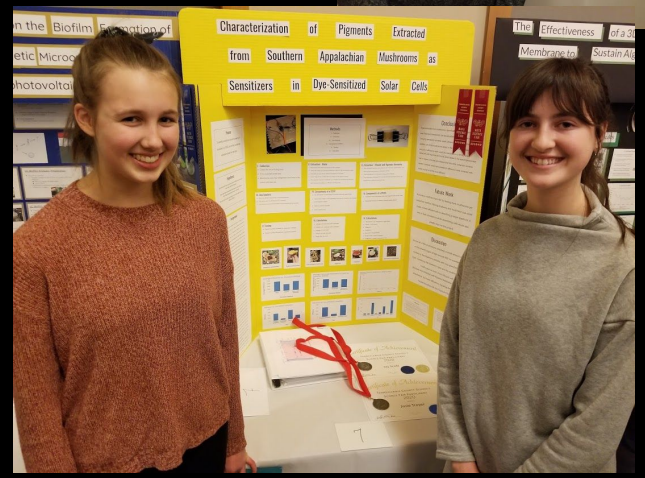
Environmental Science

1st Place: Marli Cohen and Ada Weaver: Different Anodes Effects' on Biofilm Formation of Local Photosynthetic Microorganisms in Biophotovoltaic Cells

2nd Place: Ivy Scott and Josie Troyer: Characterization of Pigments Extracted from Southern Appalachian Mushrooms as Sensitizers in Dye Sensitized Solar Cells







JUNIOR DIVISION

Biological Science B

1st Place: Madison Henderson (BMS): Mystery Cupcakes

2nd Place: Maxwell Rowell (BMS): Ages Between Magic

3rd Place: Vanessa Miranda-Pineda and Brea Boyd (BMS): Fashion

Honorable Mention: Kyleigh Gillespie and Haley McCall (BMS): Are Dogs Color Blind?

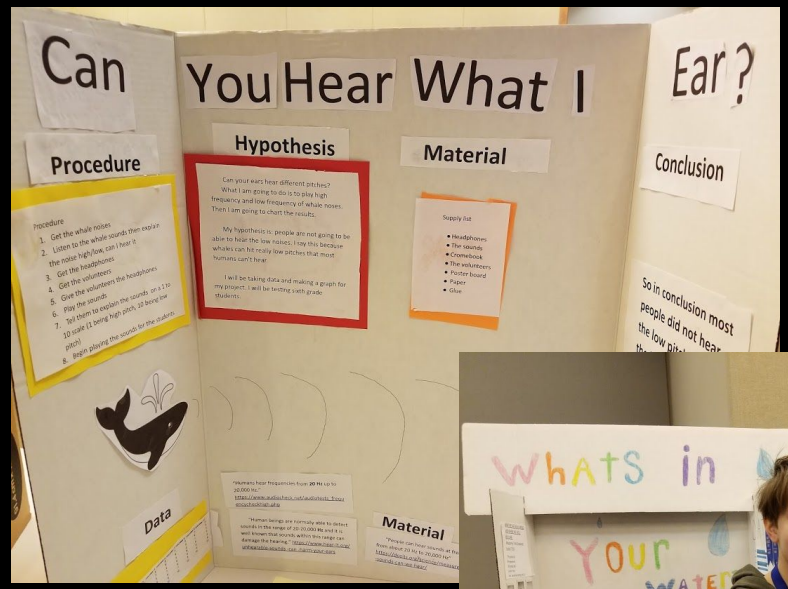
Chemistry

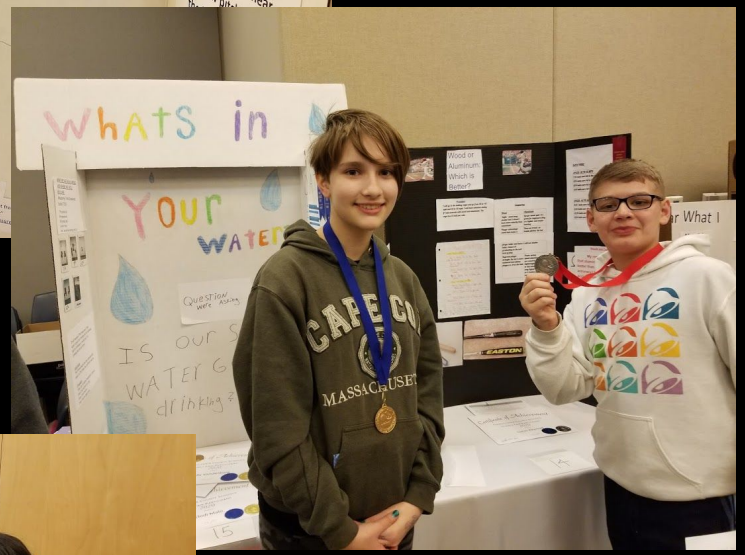
1st Place: Elodi Malo and Lilly Vanderburg (BMS): What's In Your Water?

Physics

1st Place: Wyatt Bandhauer (RMS): Do You Hear What I Ear?

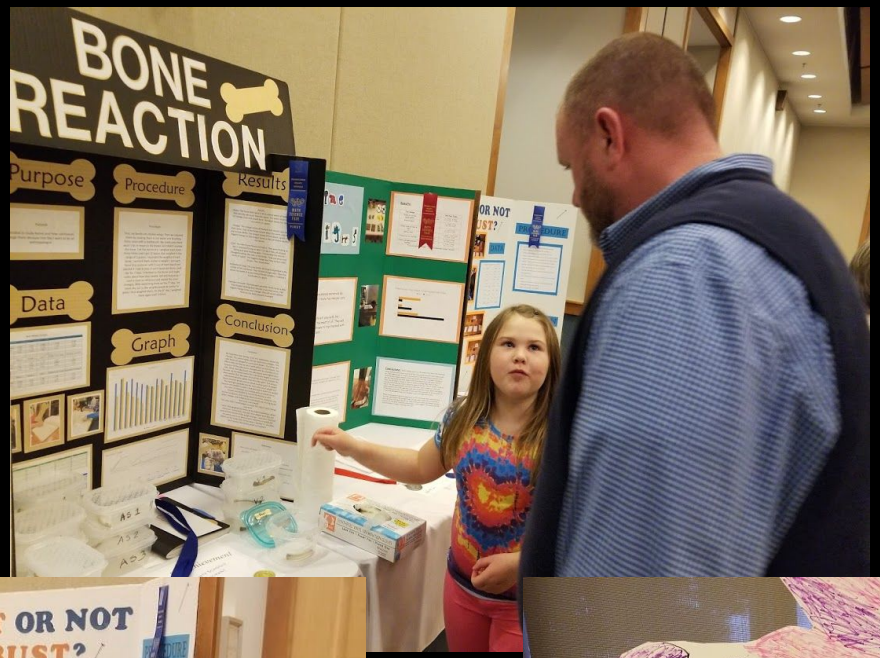
2nd Place: Lucas Akyroyd (BMS): Which is Better—Aluminum or Wood?

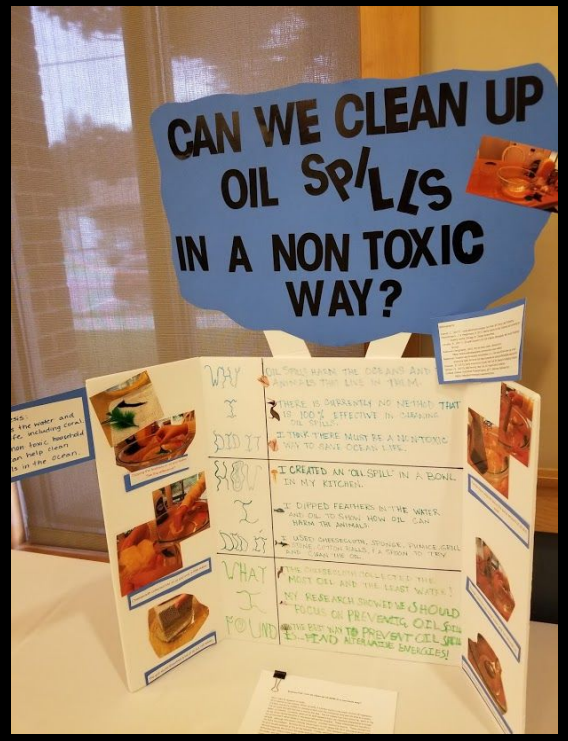


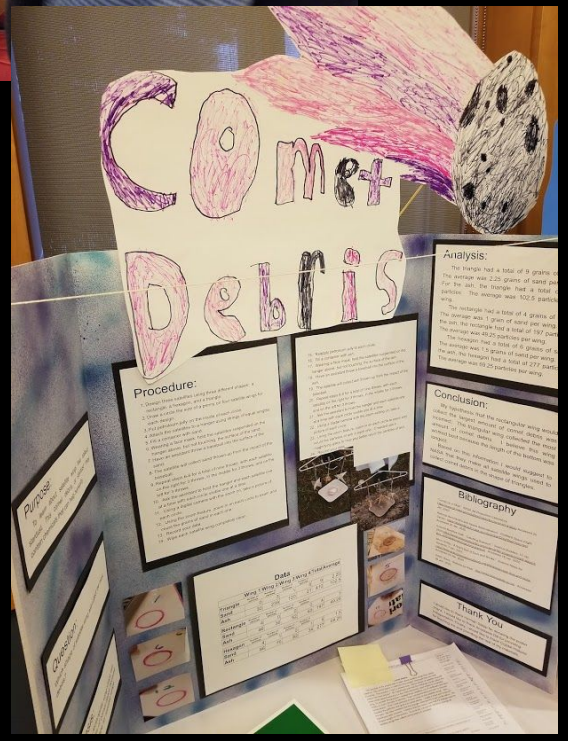


ELEMENTARY DIVISION

1st Place: Sophie Owen (BES): To Rust or Not to Rust
1st Place: Hollyn Compton (BES): Bone Reactions
1st Place: Izayah Dill (RES): Comet Debris
2nd Place: Wrenna Baldwin (BES): Feline Designs
2nd Place: Chelsea Borman (PFES): Can We Clean Up Oil Spills in a Non-Toxic Way?

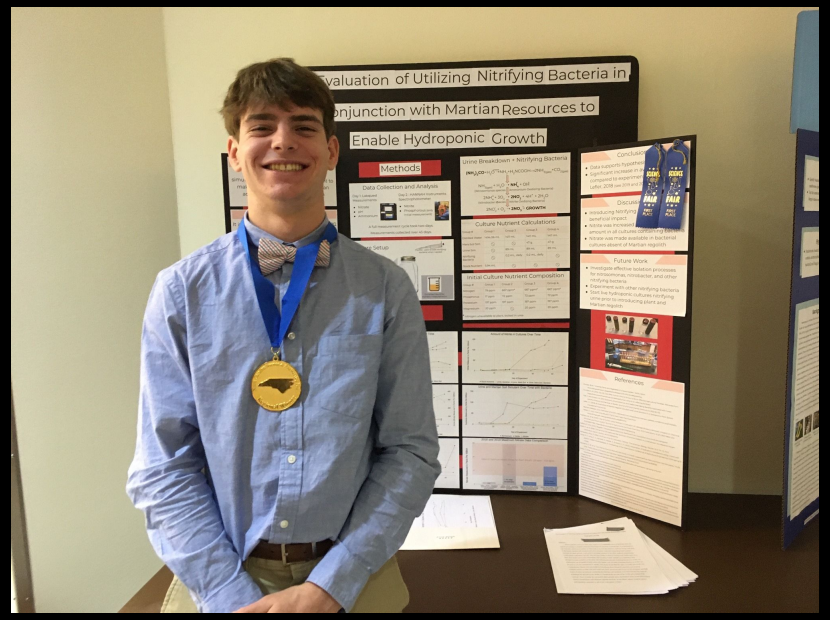






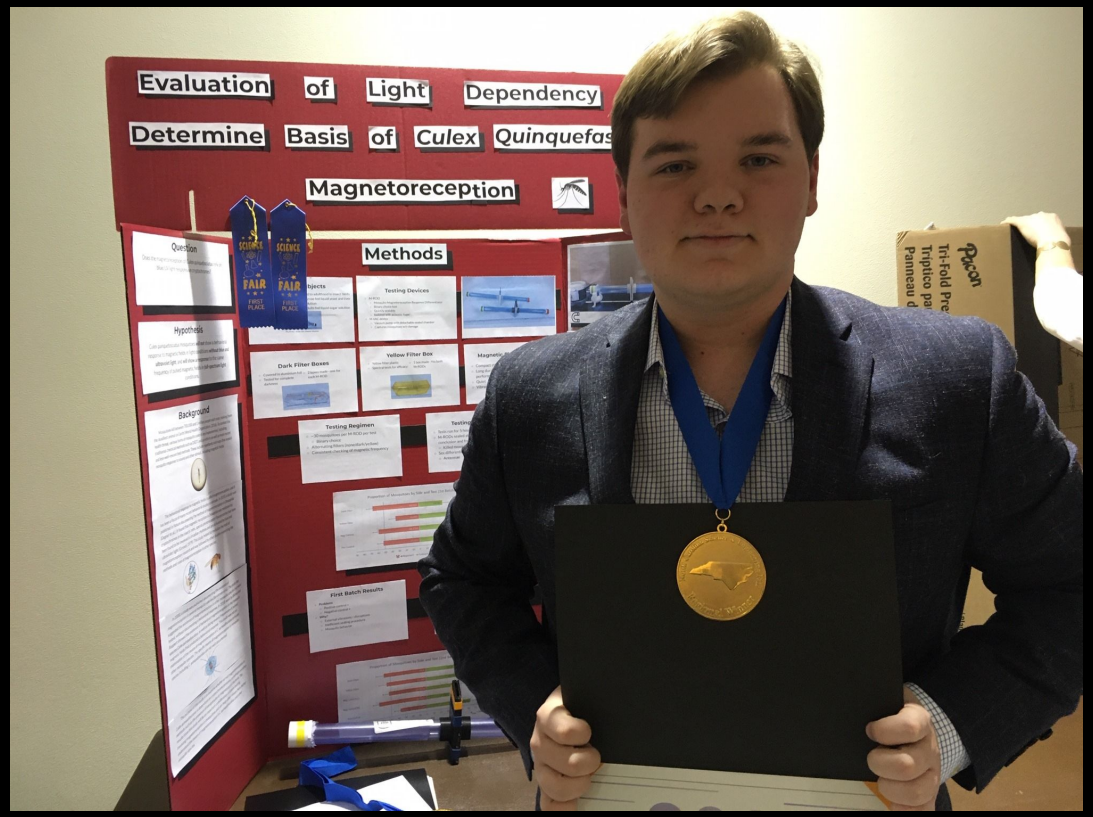
2020 Western Regional Science Fair Winners

Congratulations to the following TIME Science students from Brevard and Rosman High Schools for their achievements in the 2020 Western Region Science Fair that was held on February 14 at Western Carolina University.

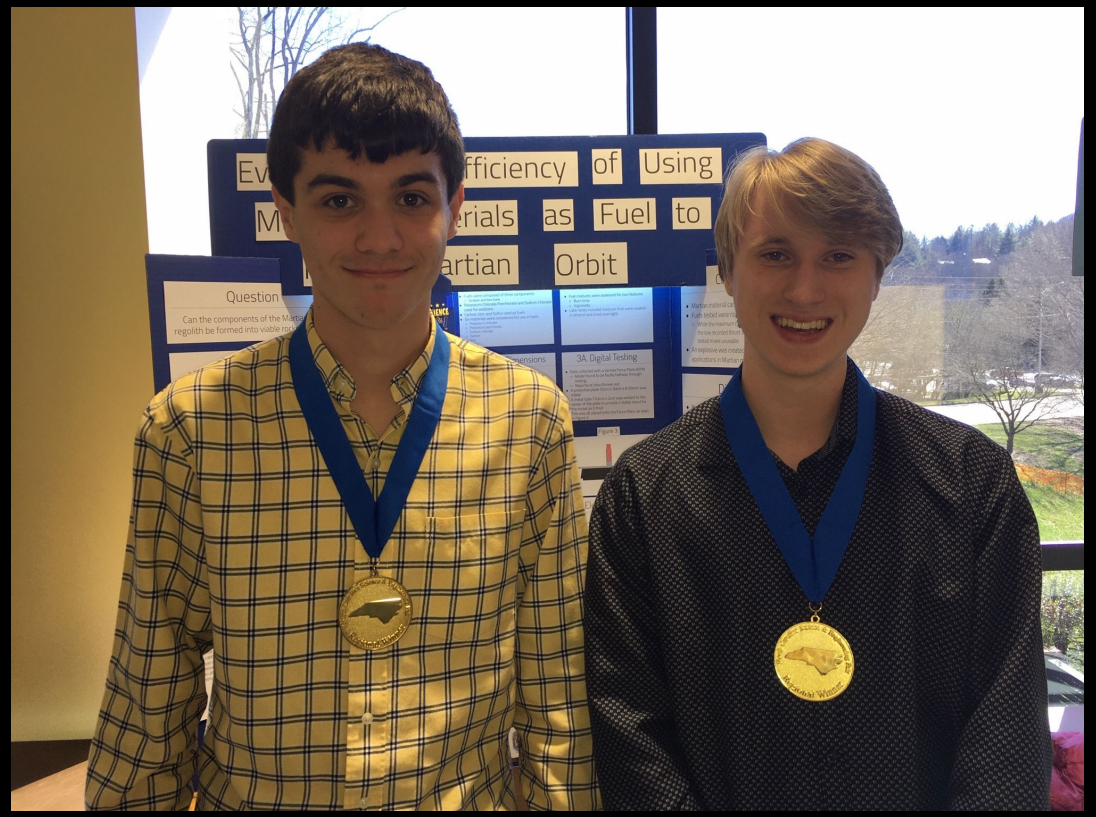


1st Place Biology A: Isaiah Lefler and Graham Green, BHS: An Evaluation of Utilizing Nitrifying Bacteria in Conjunction with Martian Resources to Enable Hydroponic Growth

2nd Place Biology A: Nicole Vargas Sancho, Jarek Stewart Karolewics and Elise Poche, BHS: Antimicrobial Activity of Microorganisms Isolated from Western North Carolina Mushrooms



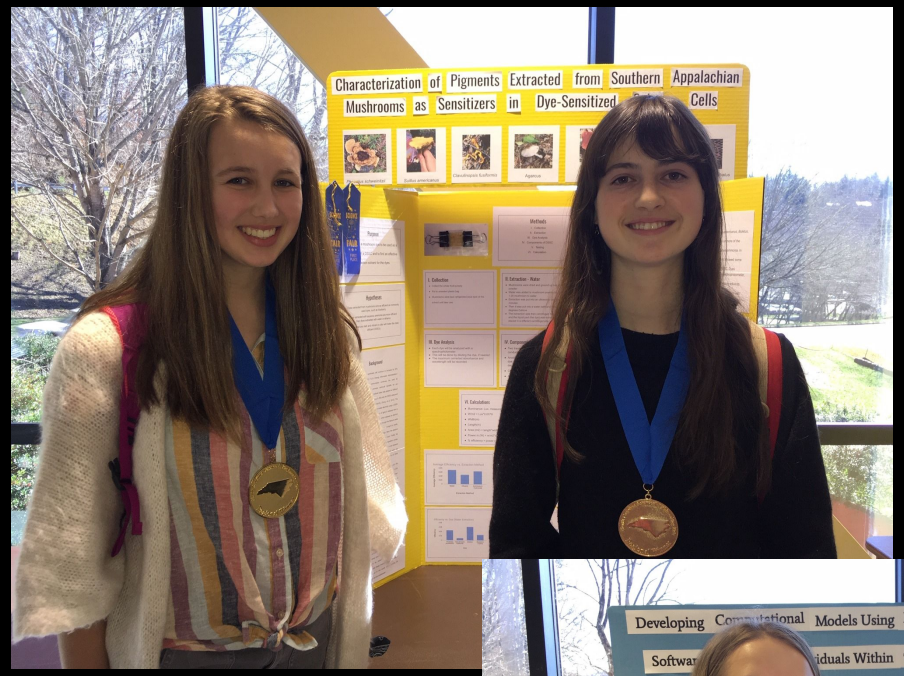
1st Place Biology B: Fritz Ruppert and Jon Gibson, BHS: Evaluation of the Role of Cryptochromes in Culex quinquefasciatus Magnetoreception

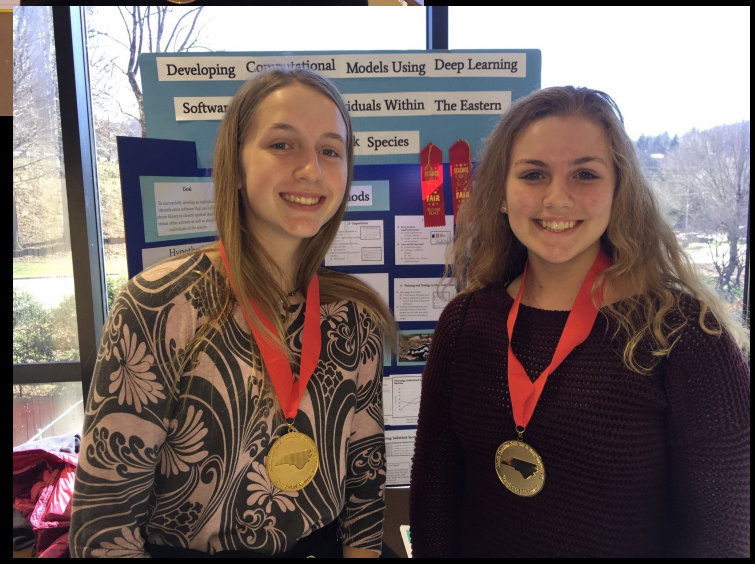


1st Place Physics; Special Award in Physics and Chemistry: Josh Kupras and Heath Sanders, RHS: Evaluating the Efficiency of Using Martian Materials as Fuel to Reach Martian Orbit

1st Place Environmental Science; Special Award in Environmental Science: Ivy Scott and Josie Troyer, BHS: Characterization of Pigments Extracted from Southern Appalachian Mushrooms as Sensitizers in Dye Sensitized Solar Cells

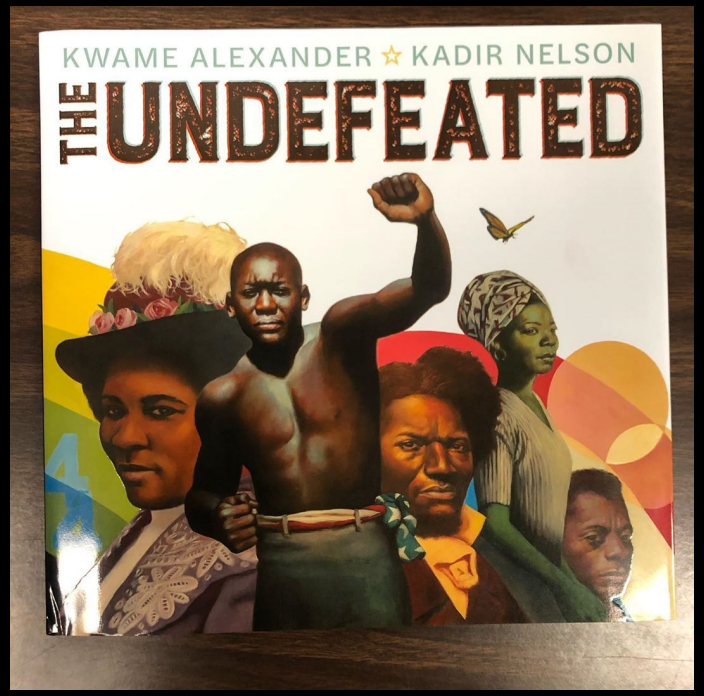
1st Place Engineering; Kimmel School Special Prize in Engineering and Technology; Stockholm Junior Water Prize; Regional Water Prize Award: Frank Parsons, Ben Caroway, and Satchel Malo, BHS: The Effectiveness of a 3D Printed Hydrogel to Sustain Algal Growth

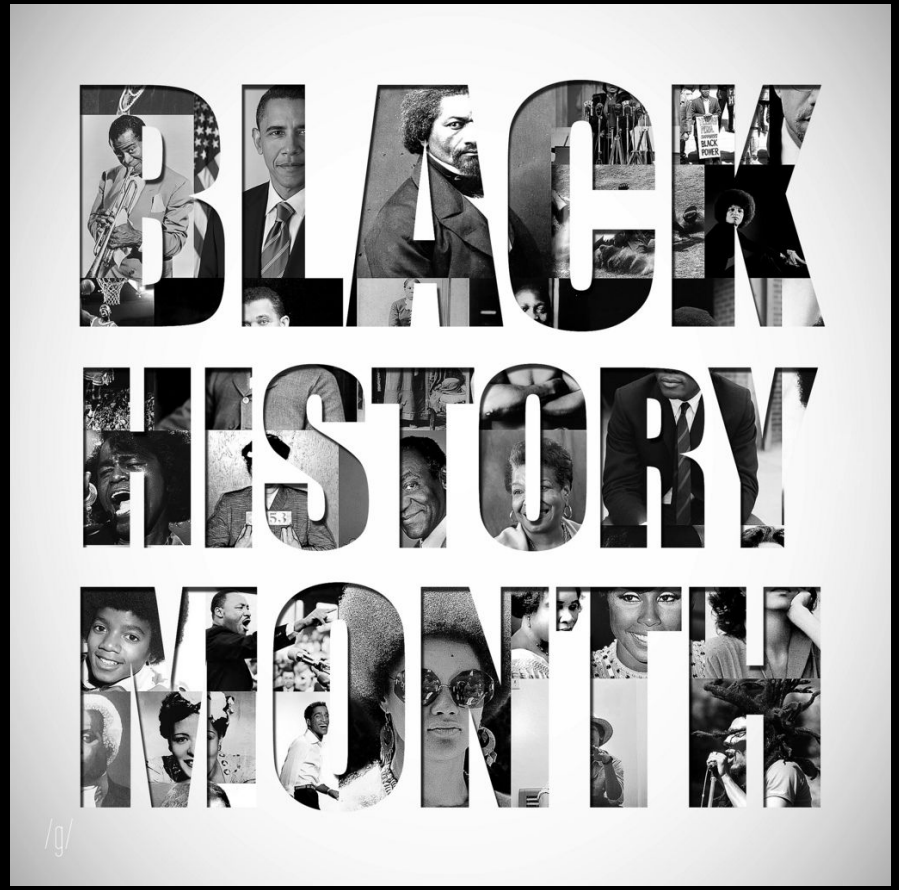




2nd Place Technology; Best Biodiversity Research Project presented by Highlands Biological Station: Kathryn Hart and Andy McKibbon, BHS: Developing Computational Models Using Deep Learning Softwares to Identify Individuals Within the Eastern Spotted Skunk Species

Black History Month





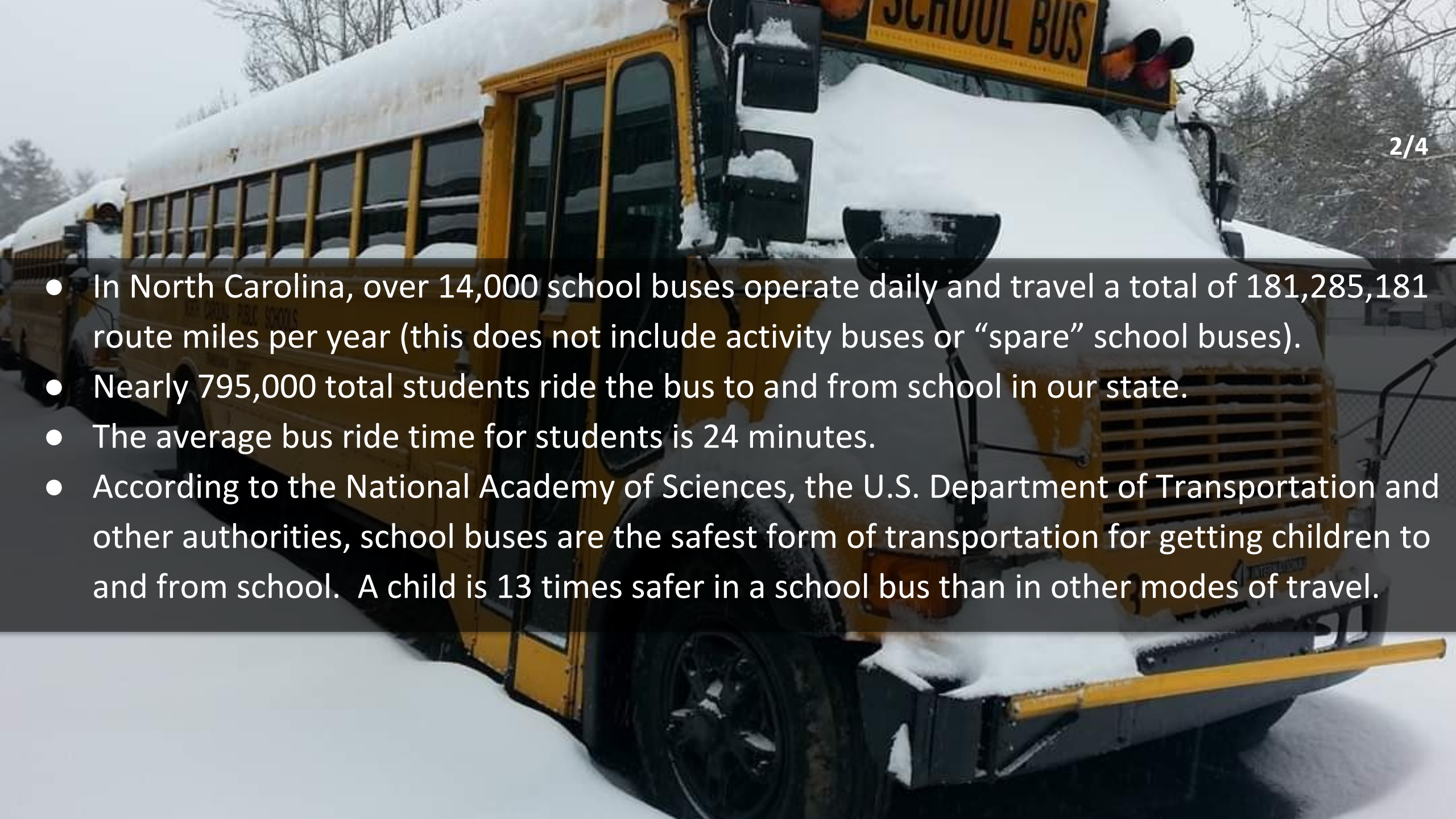
The month of February is celebrated as Black History Month in the United States, Canada, and the United Kingdom. Classrooms everywhere have activities throughout the month to commemorate the important people and events of the Civil Rights movement and the contributions and accomplishments of African-Americans in every area of endeavor in history.

National School Counseling Week

National School Counseling Week 2020, “School Counselors: Helping Build Better Humans,” was celebrated during the week of February 3-7, 2020 to focus public attention on the important and unique contribution of school counselors within our schools. School counselors have a tremendous impact in helping students achieve school success and plan for a career. Join us in thanking these dedicated professionals for all they do.

“Love The Bus”
School Bus Driver Appreciation Week

February is “Love the Bus” month nationwide, and February 10-14 was “School Bus Driver Appreciation Week” in North Carolina. Here are some facts about school buses and bus drivers that you may not know:

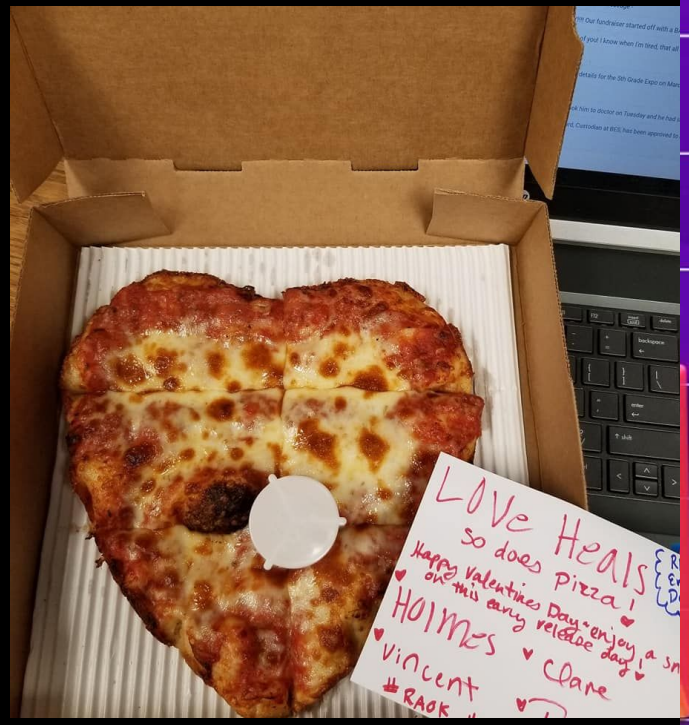


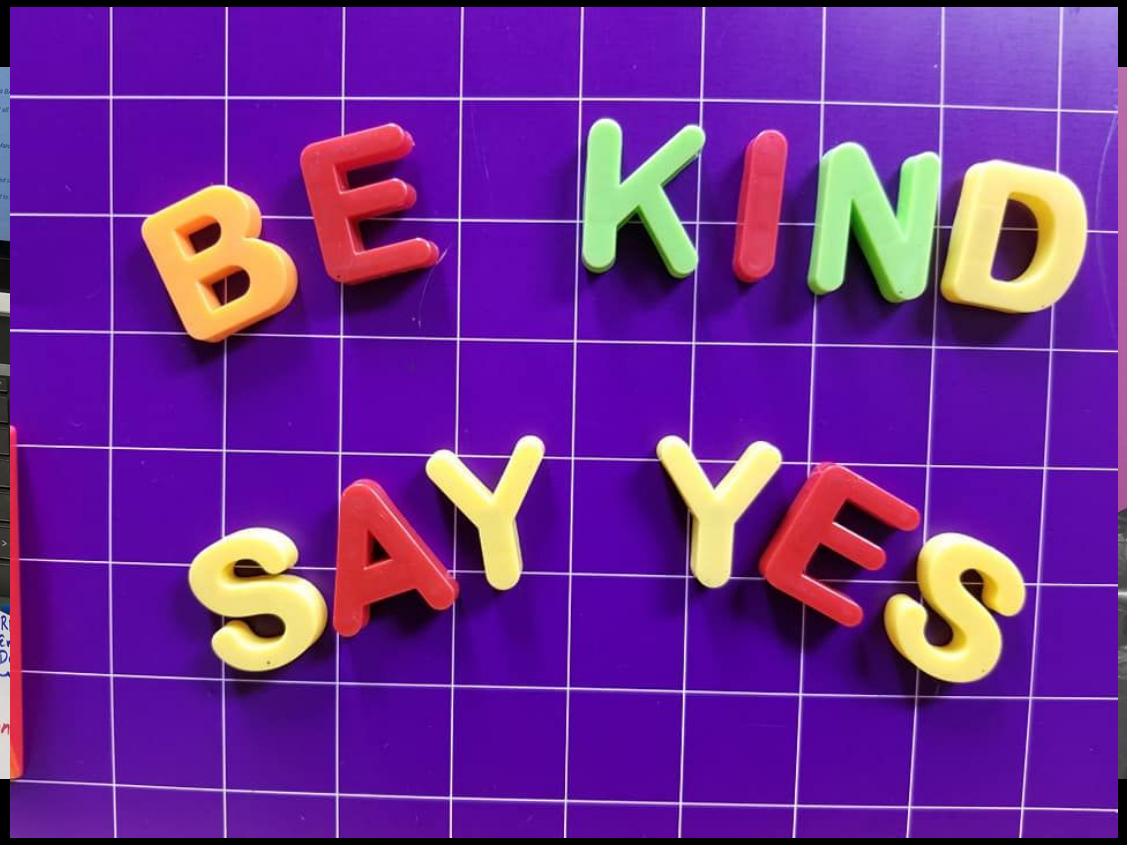
- In North Carolina, over 14,000 school buses operate daily and travel a total of 181,285,181 route miles per year (this does not include activity buses or “spare” school buses).
- Nearly 795,000 total students ride the bus to and from school in our state.
- The average bus ride time for students is 24 minutes.
- According to the National Academy of Sciences, the U.S. Department of Transportation and other authorities, school buses are the safest form of transportation for getting children to and from school. A child is 13 times safer in a school bus than in other modes of travel.

- School bus drivers go through intense, highly specialized training to ensure they are knowledgeable about student behavior management, school bus features, the loading and unloading process, and security and emergency medical procedures. Drivers must participate in pre-employment as well as random drug and alcohol tests, driving record checks, background checks, and medical exams.
- “National School Bus Yellow” is an actual color.
- The school bus system is the largest transportation system in the nation.

We ask a great deal of our drivers, and we encourage students, parents and staff to take a moment to express their appreciation for the expertise of these dedicated men and women as they serve our children and keep them safe every day.

Random Acts of Kindness





February 17th is “National Random Acts of Kindness Day.” Members of the College Walk Retirement Community recently gave a “Random Acts of Kindness” $10 Ingles gift card to the school system. Mr. Barger will request that Alan Justice give the card to a deserving school bus driver. Brevard Elementary students and staff are counting up to 1,000 acts of kindness over a two-week period to spread kindness and raise awareness for the “Jameson’s Joy” campaign.

Thank You…

To art teacher Mrs. Elizabeth Ballard and Rosman Middle School for sharing student artwork here in the Board Room this month.

And to the Transylvania County Sheriff's Office and our SRO this evening.

Stay Up To Date

bit.ly/newTCSapp

bit.ly/TCSYesRadio

/ Transylvania.Schools

/ tcsnc

/ TransylvaniaSch

/ tcsnc

/ TransylvaniaSchools

tcsnc.org/bond