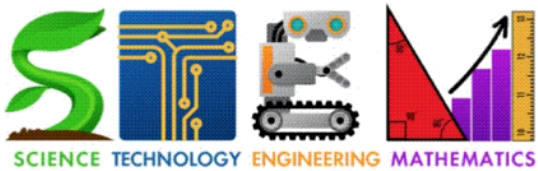
MT. ARARAT HIGH SCHOOL JUNE 2017

NEWS from the LC

S.T.E.M. Issue

MTA Mathletes Add Victories

The math team attends five regional meets throughout the school year. The team placed 1st at two of the five meets. In the Pi-Cone South League, Mt. Ararat placed fourth in their division. Individual awards went to Spencer Coker who placed 12th out of 176 seniors and Peter Mao placed 6th out of 147 juniors. Peter was also selected to represent the state of Maine at the American Regions Mathematics League's annual competition (ARML) at Penn State on June 2nd and 3rd. On April 4th, students competed at the annual Maine State Math Meet. After six individual rounds, two relay rounds and two team rounds, the Mt. Ararat team finished in the top ten of Maine's class A schools. Out of the nearly 90 teams that competed, Mt. Ararat finished 16th overall, but ranked 8th out of all public schools in the state. Congratulations!



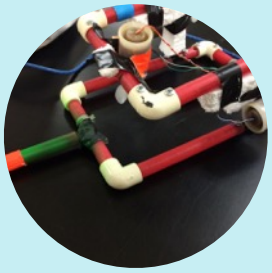
Envirothon Winners

After the Midcoast Regional Envirothon held on May 18 at Kent's Hill School, the results are in: Lindsey Papa, Maddie Plant, Rachel Thieme, Lexi Thompson, and Katie Callahan placed first in Current Issue. Tim Cox, Joe Beale, Orion Sargent, and Matt Donovan placed first in Soils and first in Aquatics. The boys team placed first overall in a field of 20 teams and will advance to the State Competition with the help of Joe Patton. States were held on May 25th at the Larrabee Farm in Knox, ME. We're very proud of their hard work!

Envirothon

I-Team

Math Team



SeaPerch

TECH TIP

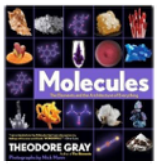
Get ready to turn in your laptop: Save all your work!

TECH TIP

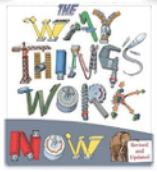
Get ready to turn in your laptop: Remove ALL personal stickers.

TECH TIP

Get ready to turn in your laptop: Prepare all parts for collection (machine, cord, case).

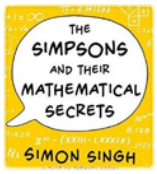


Molecules: The Elements and the Architecture of Everything. by Theodore Gray. Photographs by Nick Mann.

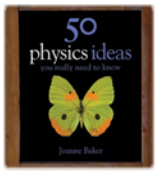


The Way Things Work Now: From Levers to Lasers, Windmills to Wi-Fi, A Visual Guide to the World of Machines. by David Macauly.

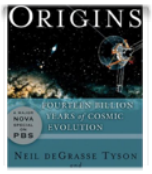
The Boy Who Played with Fusion: Extreme Science, Extreme Parenting, and How to Make a Star. by Tom Clynes.



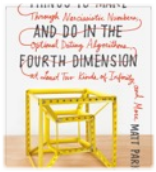
The Simpsons and Their Mathematical Secrets. by Simon Singh.



50 Physics Ideas You Really Need to Know. By Joanne Baker.



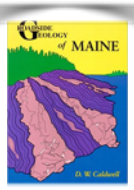
Origins: Fourteen Billion Years of Cosmic Evolutions. By Neil DeGrasse Tyson and Donald Goldsmith.



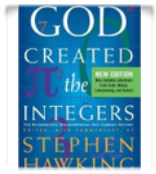
Things to Make and Do in the Fourth Dimension: A Mathematician's Journey Through Narcissistic Numbers, Optimal Dating Algorithms, At Least Two Kinds of Infinity, and More. By Matt Parker.

Weather: A Visual Guide. By Bruce Buckley, Edward J. Hopkins, and Richard Whitaker.

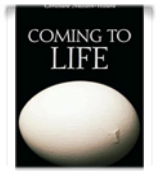
The Ingredients: A Guided Tour of the Elements. By Philip Ball.



Roadside Geology of Maine. By D. W. Caldwell.



God Created the Integers: The Mathematical Breakthroughs That Changed History. By Stephen Hawking.



Coming To Life: How Genes Drive Development. By Christiane Nusslein-Volhard.

Mainwaring's Class Writes Monster Song

Students in some of Ms. Lexine Mainwaring's classes have just read *Monster*, by Walter Dean Myers. This is a story of a sixteen year old boy on trial for murder, and explores the issues of race, justice, reality, and truth.

Choices for projects to complete the study of this story and the many themes addressed by it included creating a newsletter and writing a poem. Student newsletters included summaries of events, photos, interviews, and letters to the editor. Students used Pages to work on the newsletter.

Two students are working on original lyrics and music, and they hope to record their song in the Media Room and send it to Mr. Myers. Stay tuned to YouTube.

THE I-TEAM Returns to MTA

This year saw the rebirth of the MTA i-Team. This group of technology-minded members met weekly in the Learning Commons during the second semester. We explored various apps and websites for both the MacBook Airs and iPhone, and we tried solving a couple Digital Breakout puzzles. We have been learning about drones and using them for taking video so that when the new building project begins, we can create videos so that the public can view the progress of the construction. We also went on three field trips. Our first trip was to the annual "Tech Night" in Augusta that was put on by the State of Maine IT Department. The second trip included a tour of the "First Light" (formerly Oxford Networks) site at the former BNAS. The third field trip was to the University of Maine at Orono to attend the MLTI Student Conference. Overall, we have had a fun and successful semester and will be welcoming new members in the fall.

SeaPerch is an innovative underwater robotics program that equips teachers and students with the resources they need to build an underwater Remotely Operated Vehicle (ROV) in an in-school or out-of-school setting. MTA's Science Club became involved in the program four years ago with teacher Glenn Evans.

Students build the ROV from a kit comprised of low-cost, easily accessible parts, following a curriculum that teaches basic engineering and science concepts with a marine engineering theme. The current robot uses three thrusters (includes motors), a control box for movement left, right, and up/down, a frame made of CPVC piping, strategically placed flotation, a movable ballast, and two tools for retrieving and placing rings and cubes. MTA's team involved 10 students among three teams that each built their own robot. Fun Fact! One robot is named Deutsche Feinmechanik.

Mt. Ararat represented Maine high schools at this year's National Competition in Atlanta at Georgia Tech where we finished 40th among the 99 high schools. Congratulations!

THANK YOU DOLLAR GENERAL!

THANK YOU Topsham Public Library

The Topsham Public Library was awarded a $1,000 grant from the Dollar General Literacy Foundation to support summer literacy through the library's Summer Reading for All pilot initiative. This project will provide free non-resident summer library cards to elementary, middle and high school students in the SAD 75 School District who live in Bowdoin and Bowdoinham. This local grant award is part of more than $7.5 million in grants awarded to nearly 900 schools, nonprofits and organizations across the 44 states that Dollar General serves.