



UNITED STATES
AIR FORCE ACADEMY

USAFA K-12 STEM Outreach Program Newsletter

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United States Air Force Academy and Air Force STEM Webpages

<https://www.usafa.edu/stem-outreach/>

<http://www.usafa.af.mil/>

<https://afstem.afciviliancareers.com/>



QR Code for USAFA K-12 STEM Outreach page

FREE STEM Professional Development for Teachers!

Two local groups provide free monthly STEM professional development workshops and are supported by the Air Force Academy. Peak Area Leadership in Science (PALS) provides continuing education credit from the School of Mines or 60 contact hours.

2018-19 sessions include:

- August 25 - Denver Botanic Gardens & Butterfly Pavilion
- September 22 - Exploring Bees, Raptors and Ecology of the Arkansas River
- October 10 - Physics is Fun and Easy
- October 21 - Sun Study at Picket Wire Canyonlands, La Junta
- November 14 - Practical Astronomy for Secondary Science Teachers
- December 1 - Brain-Based Instruction Denver Museum of Natural Science
- January 26 - Chemistry of Rocks, Minerals and Mining at USAFA
- February 13 - Games in the Science Classroom
- March 14 - Biomechanics and Human Performance at the Olympic Training Center
- April 17 - Making sense of the Next Generation Science Standards
- May 4 - Reticulated Conservation at the Cheyenne Mountain Zoo

These meetings are informative and fun. Attendees receive workshop related books or equipment to use in their classrooms. Snacks and lunch or dinner is included. To register for workshops, go to sciencehubs.org.



Science, Technology,
Engineering, Math...It's
eleSTEMary!

EleSTEMary workshops model how elementary teachers can easily implement STEM into their classrooms. 2018-19 Workshops are from 4:30-6:30PM at the District 20 Administration Office. Contact hour certificates are provided and attendees receive workshop themed books or materials. This year's sessions include:

- September 13 - STEM 101 (Essentials for bringing STEM Alive)
- October 11 - STEM Resources Share-a-Thon (Local Resources)
- November 8 - Engineering is Everywhere (Ideas for implementing engineering in your classroom)
- December 13 - Money for STEM (Finding grant monies to support your program)
- January 10 - STEM Resolutions (Bringing STEM into your curriculum)
- February 14 - STEAM-EEE! (Incorporating the arts into STEM education)
- March 14 – sySTEMatic Situations (A look at a variety of systems for STEM problem solving)
- April 11 – Garden of the Gods and Glen Eyrie (Investigating local opportunities for STEM problem-solving)

Go to www.elestemary.org to register.

USAFA K-12 STEM Outreach Mission

The United States Air Force Academy Science, Technology, Engineering, and Math (STEM) Outreach Program mission is to offer a variety of programs and services that effectively engage, inspire, and attract the next generation of STEM talent.

Contact Us

USAFA Office of Research

The Office of Research strives to build a positive relationship with K-12 students and educators and encourage recruitment/growth of future cadets to develop skills implicit to national security and the nation's competitive edge.

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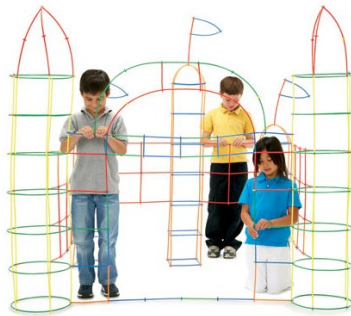


Physics in Fiction – Dr. Debora Katz

Dr. Deborah Katz has offered to support middle & high school teachers with sessions called, “Physics in Fiction.” Students would read a book or watch a movie clip and then determine if a described event is scientifically possible. *The Martian*, *Interstellar* and *The Fast and Furious* video clips are possibilities as well as science fiction novels or short stories. Dr. Katz also offers talks on cosmology and astrophysics.

Recently added to the Lending Library!

Once again the USAFA Lending Library has been expanded. Check-outs and returns are on Wednesday and Thursday afternoons at 4:00PM. Depending on availability, items may be checked out for 6-8 weeks. Email Sandy Lamb for check-outs at sandra.lamb.ctr@usafa.edu.



Playshire Funflakes



Ozobots Classroom Set

Lt Aspen Sulte Inspires Students at Horizon Middle School

Lt Aspen Sulte recently spoke to 480 Horizon Middle School students about the importance of working hard to achieve their goals.

