

Civil Air Patrol



Aerospace/STEM Education

Overview for AOPA High School Educators and Organizations

CITIZENS SERVING COMMUNITIES
WWW.GOCIVILAIRPATROL.COM



Aerospace/STEM Education

Aerospace Education Membership for YOU

- Join as an Aerospace Education Member (AEM) @ \$35 one-time membership fee
- Not a member of a CAP squadron; no meetings to attend; just inspire youth in your area with STEM Ed
- Formal/informal educators eligible (schools, libraries, youth organizations, etc.)
- Enjoy all of the **FREE** AEM benefits (to follow)



Aerospace/STEM Education

~ *Teacher Orientation Program (TOP) Flights*

- AEMs can fly in a local CAP Cessna airplane
- Best to fly with a friend, so get other teachers to join and fly with you over your geographical area
- Bring experience back to students





Aerospace/STEM Education

~Curricula Products

- Over 40 products
- Aligned w/
Nat'l Standards
- Pre K- grade 12
- Upcoming for 2018
 - Tuskegee Airmen
 - Women in Aviation





Aerospace/STEM Education

~ K-12 STEM Kit Program

Cost? A \$35 AE Membership Fee



15 kits from which to select one-at-a-time to use; evaluate; and keep!

78% Increased STEM Career Interest



~ K-12 STEM Kit Program

10 Kits



Ready-to-Fly
Quadcopter

Weather
Station



Astronomy



Model & Remote
Control Aircraft



Rocketry



Hydraulic
Engineering



Quadcopter

Raspberry Pi
Computer
Coding



Robotics

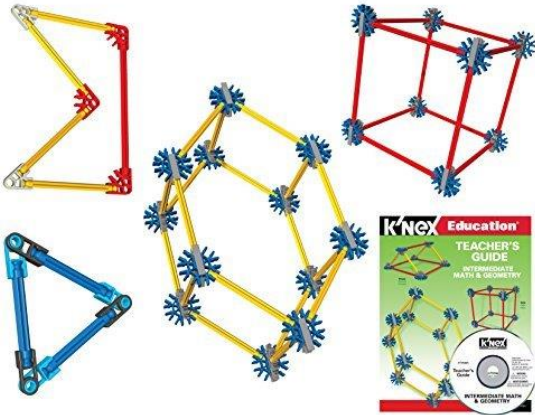


Flight Simulator



Aerospace/STEM Education

~5 Additional STEM Kits!



Intermediate
Math &
Geometry

Spher
o



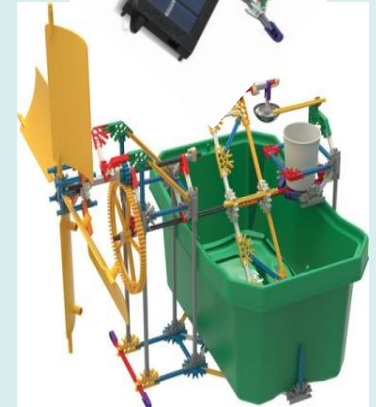
Bee Bots



Renewable
Energy



Snap Circuits
Snaptricity





Aerospace/STEM Education

~ K-12 Aerospace Education EXcellence (AEX) Program

- * Conduct 6 aerospace-themed lessons
 - ~ from any CAP curricula
 - ~ additional curricula
- * Conduct a two-hour or longer event
 - ~ fieldtrip to airport or museum
 - ~ rocket launch
 - ~ STEM day for younger students
- * Receive certificates for all participants





Aerospace/STEM Education

~ K-6 ACE Program

Aerospace Connections in Education

* Use of aerospace theme to promote:

- ~ academics
- ~ character development
- ~ physical fitness

* 21 lessons per grade level

* Grade- level manipulatives

* Great for high school students to mentor younger students in aviation education!!!!

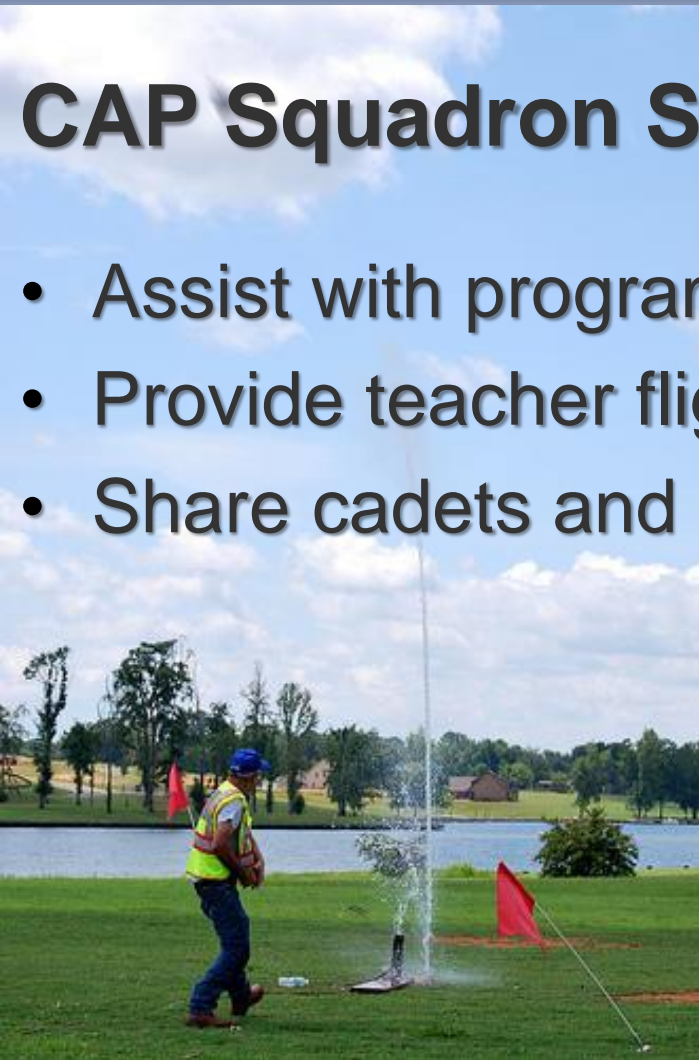




Aerospace/STEM Education

CAP Squadron Support

- Assist with program implementation
- Provide teacher flights
- Share cadets and cadet program





Aerospace/STEM Education

CAP Cadet Program www.capmembers.com/cadets

- For youth, ages 12-20, wanting MORE
- Military-style program involving:
 - ~ character/leadership development
 - ~ aerospace/STEM career preparation
 - ~ aviation scholarships
 - ~ physical fitness/drill & ceremony
 - ~ community service/mentoring
- CAP Cadet squadrons located across the nation
 - ~ Find a squadron nearby to visit at www.gocivilairpatrol.com
***Enter your ZIP code at “Find a Squadron Near You”





Aerospace/STEM Education

What to become involved with CAP?

- Join online as AEM for \$35 fee
www.capmembers.com/joinaem
- Inspire the youth within your reach
- Introduce the CAP Cadet program
- Reach out and touch:
 - ~ other youth
 - ~ other educators
 - ~ the future...
- Contact ae@capnhq.gov with any questions

