



CIVIL AIR PATROL
AEROSPACE EDUCATION

Aerospace/STEM Education



**Presentation for Formal and Informal
K-12 STEM Educators and Organizations**

CITIZENS SERVING COMMUNITIES
WWW.GOCIVILAIRPATROL.COM



Civil Air Patrol History

Formed December 1, 1941, for civilian aviation purposes, Civil Air Patrol is a nonprofit, humanitarian organization chartered by Congress and is the official Auxiliary of the United States Air Force.

- 1942- Started the Cadet Program
- 1946- Incorporated by Congress
- 1948- Became USAF Auxiliary
- 1953- Aerospace Ed in school systems
- Today- Outreach to the nation
 - * Leading K-12 youth and STEM organization in the nation

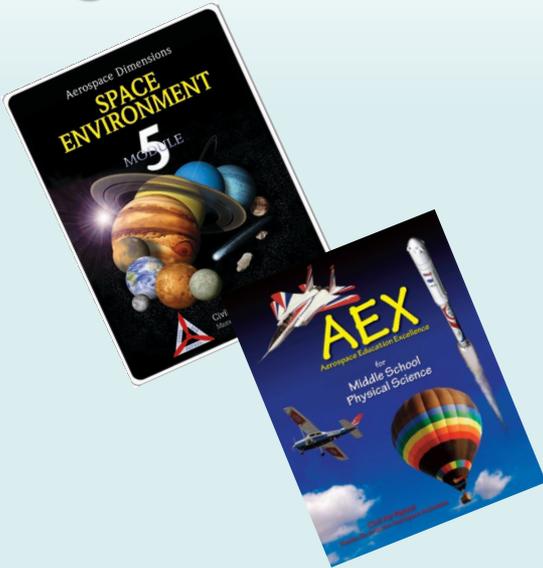
*****Has always had women at the forefront.
Continues to provide myriad aviation/STEM opportunities for diverse populations of male and female youth across our country!**





Aerospace/STEM Education

How can YOU and/or YOUR school, home school, youth organization, museum, library, or any other STEM-based organization become involved?



How can you benefit from the amazing FREE STEM products and programs & inspire youth to SOAR?

Become a CAP Aerospace Education Member!



Aerospace/STEM Education

~ *Aerospace Education Membership (AEM)*

- ★ \$35 one-time membership fee; free annual renewal
- ★ Not a member of a CAP squadron; no uniform to wear; no meetings to attend; just inspire youth with STEM Ed
- ★ K-12 formal/informal educators eligible (*schools, libraries, museums, youth organizations, etc.*)
- ★ Enjoy all of the **FREE** AEM benefits (*to follow*)
- ★ Why? Help inspire youth toward STEM careers





Aerospace/STEM Education

~ *Teacher Orientation Program (TOP) Flights*

- ★ Fly in a CAP Cessna airplane
- ★ Pre-flight briefing
- ★ Fly over local area or school
- ★ Handle the controls to fly the plane
- ★ Bring experience back to students





Aerospace/STEM Education

~ Free Educational Products

- ★ Over 40 products- order in print and/or download online from member portal, eServices
- ★ Aligned w/ Next Gen Science Standards and other National Academic Standards
- ★ Pre K- grade12





Aerospace/STEM Education

~ *K-12 STEM Kit Program*



20+ FREE kits from which to select one-at-a-time to use, evaluate, and keep!



87% Increased STEM Career Interest



Free STEM Kit Program



Model & Remote Control Aircraft

Weather Station



Robotics Workshop



Indoor Quadcopter

Rocketry



Mechanics



Outdoor Quadcopter



Hydraulic Engineering

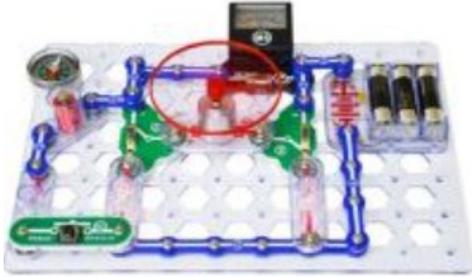


Flight Simulator





More Examples of Free STEM Kits

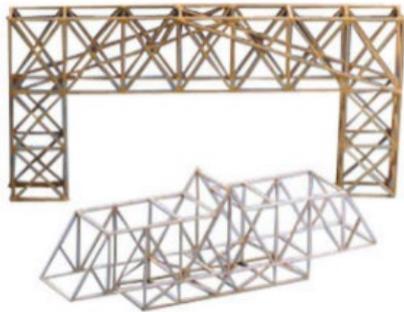


Raspberry Pi
Computer
Coding



Sphero Bolt
and Code Map

Snap Circuits Snaptricity



Bridge
Building



BeeBot/ Code
&Go Mouse

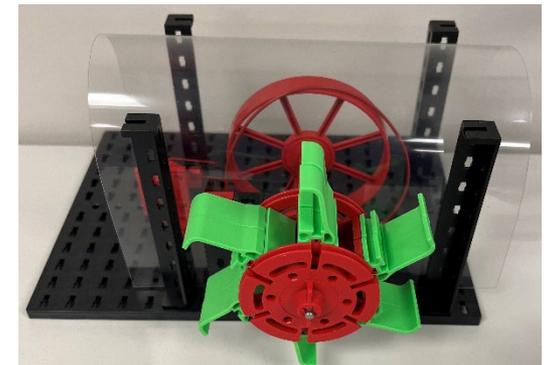


30 Days
Lost in Space

Astronomy



Renewable
Energy





Aerospace/STEM Education

~ Free K-6th Grade ACE Program



Aerospace Connections in Education

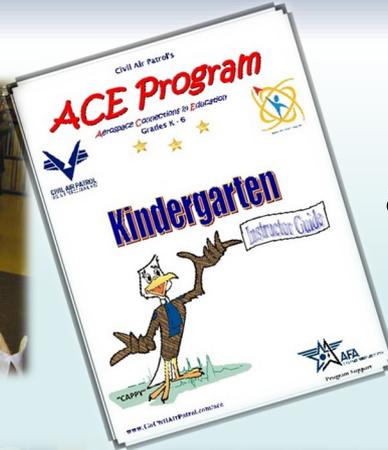
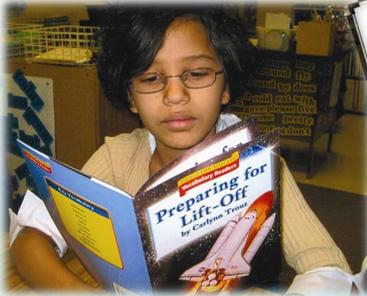
- ★ Use of aerospace theme to promote:
 - ~ academics (STEM-centric)
 - ~ character development
 - ~ physical fitness
- ★ 22 lessons per grade level in curriculum guides aligned w/ NGSS / other academic standards
- ★ Class set of grade level educational manipulatives



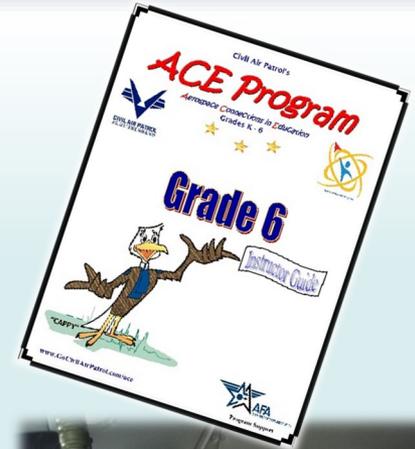


Aerospace/STEM Education

Aerospace Connections in Education: K-6 STEM



Over 600,000 students across the nation inspired to pursue STEM careers. Can be expanded to K-8!





Aerospace/STEM Education

~CAP Squadron Support to AEMs

- ★ Assist with program implementation
- ★ Provide teacher flights
- ★ Share cadets and cadet program
- ★ Classroom aerospace speakers
- ★ Arrange field trips to airports/museums





Aerospace/STEM Education

~ Sharing CAP Cadet Program

- ★ Available to any youth, ages 12-18, who are interested in learning to fly, becoming a part of a CAP squadron, earning scholarships, learning about aerospace/STEM careers, being mentored by aviation specialists, or mentoring other youth!
- ★ Want to know more about the program?
- ★ Read on....





Aerospace/STEM Education

~ CAP Cadet Program www.GoCivilAirPatrol.com/cadets

★ For youth, ages 12-18, wanting MORE experience in aviation and STEM

★ Military-style program involving:

- ~ character/leadership development
- ~ aerospace/STEM career exploration
- ~ aviation/private pilot scholarships
- ~ physical fitness/drill & ceremony
- ~ community service/mentoring

• CAP Cadet squadrons are located across the nation

~ Locate a local squadron at www.GoCivilAirPatrol.com

****Enter ZIP code at "Find Your Local Squadron"*





Aerospace/STEM Education

~ CAP Cadet Program Career Exploration

- ★ Aircraft Maintenance & Manufacturing
- ★ Engineering Technology
- ★ Advanced Technology
- ★ Space Command
- ★ Meteorology
- ★ Pararescue
- ★ Flight Training
- ★ Cyber Security
- ★ STEM Educator





Aerospace/STEM Education

~ Benefits of CAP's Aerospace & Cadet Programs

Inspiring the Next Generation!



- ★ Offers positive STEM role models
- ★ Encourages respect for self and others
- ★ Reinforces academic relevance and purpose
- ★ Promotes a physically fit and drug-free lifestyle
- ★ Empowers youth with the desire to seek STEM careers
- ★ Provides career development options & opportunities
- ★ Helps develop technologically-prepared STEM workforce



Aerospace/STEM Education

What to become involved with CAP?

- ★ Join online as AEM for \$35 fee
www.GoCivilAirPatrol.com/joinaem
- * Inspire the youth within your reach
- * Introduce the CAP Cadet program

- ★ Reach out and touch:
 - ~ other youth
 - ~ other educators
 - ~ the future...





Aerospace/STEM Education

CAP: Investing in our future...



★ Contact ae@capnhq.gov for more information