



Civil Air Patrol Aerospace/STEM Education Programs for Educators

www.gocivilairpatrol.com/ae

If looking for free aerospace/STEM lesson plans, activities, textbooks, products, and programs to use in any classroom or after-school or enrichment program, CAP may have something to help you! CAP's free products and programs, below, can be used across disciplines and in both core and elective studies, as well as in informal educational settings.

- To see how aerospace connects across the curriculum, check out the Aerospace Curriculum Connections index, [HERE](#).
- Civil Air Patrol uses aviation as the theme to propel youth onward and upward!
- Civil Air Patrol, the Auxiliary of the United States Air Force, is serving communities across America!

Civil Air Patrol, [**Aerospace/STEM Education Programs Investing in the Future!**](#)



[Click on photo for video](#) to explain the Aerospace Education Membership program, courtesy of SC Wing's Aerospace Education YouTube channel

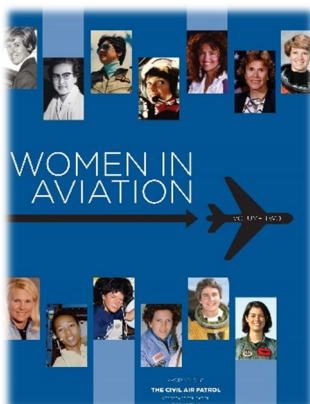
1- **AEM Program:** The Aerospace Education Member (AEM) program is for K-12 formal and informal educators at schools, youth organizations, museums and libraries. AEMs do not belong to a local CAP squadron, do not wear uniforms, and do not attend squadron meetings. The AEM is a member of the CAP National HQ group, with the NHQ located in Montgomery, AL, at Maxwell Air Force Base. There is a one-time \$35 fee; with free annual renewal. See [Educators Page](#) and [AEM Info Flier](#).

*** [Join Directly Online](#) ***Paying by school check? e-mail ae@capnhq.gov for assistance .

2- Aerospace Education Member Benefits:

- a. **Free K-12 books:** Each member can order several free books in their grade level area to be shipped, if so desired. But, all of the large assortment of 40+ national academic standards-aligned books can be accessed online or by e-mailing ae@capnhq.gov.

Book topics include aerospace-related STEM varieties from early childhood to high school, as well as specialty books, such as two volumes of *Women in Aviation*, as seen below.



- b. **Free K-12 STEM Kits:** Each member can apply for one (at a time) of many free STEM Kits to use and keep. See the application requirements and process description [HERE](#).



- c. **Free K-12 Aerospace Education Excellence (AEX) award program:** This award program culminates with AEX certificates for the educator and student participants. To earn these award certificates, the educator will need to conduct 6 aerospace/STEM lessons from the many AEX books or other resources, AND, a 2-hour event, such as a rocket or hot air balloon launch; an airplane build and fly-off event; or a trip to a museum, airport, or other aerospace location.



- d. **Free K-6 Aerospace Connections in Education (ACE) program:** This is a grade-level specific program that requires educators to register each school year, beginning August 1st annually. After registering, class sets of student materials are shipped to ACE teachers. Teachers are asked to complete at least 10 out of the 21+ ACE lessons in the grade-level curriculum guides found in the [AE Downloads and Resources section of eServices](#). Lessons include theme components of Academics, Character Ed, and Physical Fitness. ACE completion certificates will be sent for special program presentations. Entire schools can conduct the program during the school year and/or in after-school or summer enrichment programs. Museums, libraries and other youth organizations can do the same. [ACE Info Flier](#)
- Want some assistance from a CAP squadron (as noted in #4 below)? See how CAP squadrons can assist in your ACE program [HERE](#). OR, you may want to join the [Adopt-a-Classroom program](#) where CAP adult and cadet members adopt your 5th-8th grade class and provide instruction and materials for ACE lessons and MORE!



- e. **Free Teacher Orientation Program (TOP) flights:** Find out how each area of STEM is involved in aviation with a TOP flight! CAP pilots will fly teachers at their closest airport for a great flying experience to share with students. E-mail ae@capnhq.gov to request a flight—or, for any questions. (* Find another teacher to join CAP to fly with you! It is more fun to fly with a friend!)



4- **CAP Squadron Support:** CAP has squadrons all around the country with adult volunteers and cadets (ages 12-21) who may be able to assist with some aviation instruction in the classroom. Contact your closest CAP squadron and request an aviation-related speaker, a tour of the local airport and a CAP plane, or assistance for career day.



- a. To find a squadron near you, go to www.gocivilairpatrol.com and enter your ZIP code in the “Find your local squadron” section, and adjust the search radius from 10-100 miles. Contact the person listed to ask for any support you may desire.
- b. Also, if you have students in grades 6-12, you may ask if the CAP adult member can bring some cadets to your location to talk to the students about the benefits of becoming a CAP cadet. [Learn more about becoming a CAP cadet.](#) Check out the [Cadet Life video!](#)

For those students really interested in an aviation career, check out the CAP Cadet Wings Pathway through the [Youth Aviation Initiative](#). Print a [Cadet Wings Pathway informational flier](#), if needed. Finally, if your school would like to start a Cadet program at the school, check out CAP's Cadets at School program info [HERE!](#)



➤ Want to know more about any program? Contact ae@capnhq.gov.