

CIVIL AIR PATROL

Aerospace Education's



ACE

K-6 STEM program



The free **Aerospace Connections in Education (ACE)** program is a fun, interactive aerospace/STEM program for CAP educator members who teach grades K-6. ACE is designed to engage and inspire early-aged youth toward an interest in aviation, space, and other STEM-related careers.



Aerospace

The ACE program introduces young learners to air and space flight and the related reading, art, history, geography, and STEM concepts involved. Students are each given a grade-appropriate educational tool to learn about and apply the principles of aerodynamics via easy-to-teach lessons, sometimes taught by CAP volunteers!

Connections

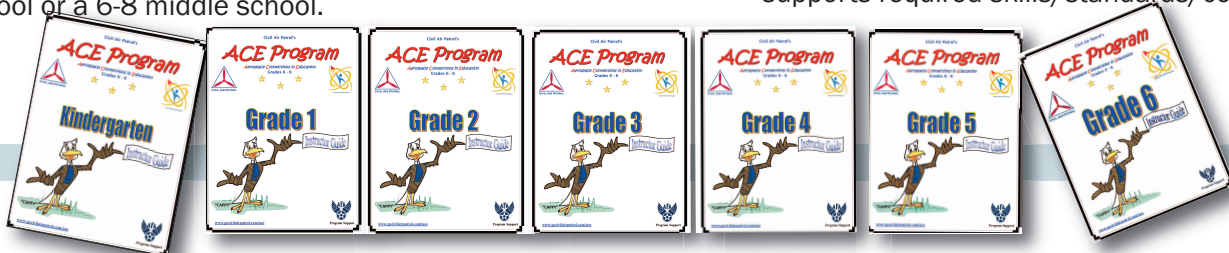
Using the aerospace theme, the ACE program integrates 3 important educational components: *academics, character ed, and physical fitness*. In this cross-curricular program, students can connect content skills with real-life applications and positive adult and teen CAP role models.

in Education

Since 2008, ACE has reached over 350,000 students in every state, and has seen stellar student-centered results! Teachers report a 27% increase in science test scores and that ACE supports required skills/standards/concepts.

Quick Points

1. The free online curriculum guides are grade-level specific with 21+ lessons per guide and aligned with NGSS and other national academic standards.
2. Each ACE teacher receives free educational manipulatives for each student participant.
3. End-of-program ACE national award grants and certificates for all participants are provided by ACE program supporter, the AFA (Air Force Association).
5. Ask about adding gr 7 & 8 in a K-8 school or a 6-8 middle school.



Register **YOUR** students as ACE students beginning Aug 1st each year!

Questions?
Contact ace@capnhq.gov

ACE

Aerospace Connections in Education

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Each ACE teacher receives a free class set of grade-specific aerospace educational items. Each ACE student gets one of these fun and engaging items to bring the study of space and flight to life!



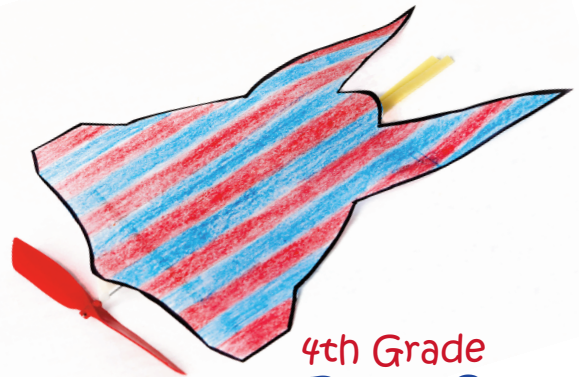
Kindergarten
Earth balls

1st Grade
Balsa gliders



2nd Grade
Finger rockets

3rd Grade
Foam gliders



4th Grade
Rocket Planez™



5th Grade
Balsa planes
(powered by rubber bands)



6th Grade
Mini-rocket
footballs

GoCivilAirPatrol.com/ace



Program Sponsor:
Air Force Association

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ACE for CAP Squadrons

How can your squadron be involved?

- Connect with a local school and invite the educator(s) to join CAP as an Aerospace Education Member (AEM) and then introduce the ACE program to them.
- Offer to teach one or more of the ACE lessons to their students.
- Offer to bring some cadets to the school to assist in teaching the lesson(s).
- Try to connect with 5th and 6th grade classes so that the cadets can introduce the Cadet Program to the students.
- Offer to coordinate a field trip to the closest airport or aviation museum or other interesting local aviation venue.
- Offer to coordinate a Teacher Orientation Program (Top) flight for the teachers. Then, have someone stay at the school with the students while the teacher(s) live stream the flight back to the classroom.
- Offer to present the end-of-year ACE certificates to the students.



What are the benefits of becoming involved?

- Great CAP public awareness program for the community.
- Wonderful way to allow the cadets to mentor younger students.
- Exciting opportunity to involve teachers with the squadron with TOP flights, field trips, etc. so that they may decide to become a Sr Member and work in the AE program.
- Best way to introduce the cadet program to students who may otherwise not be aware of CAP's opportunities for young people.
- Get youngsters interested in aviation at an early age to begin preparing them for middle and high school aviation-career pathway programs.... CAP's initial efforts to help build the future aviation workforce.

- Contact ace@capnhq.gov.