

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

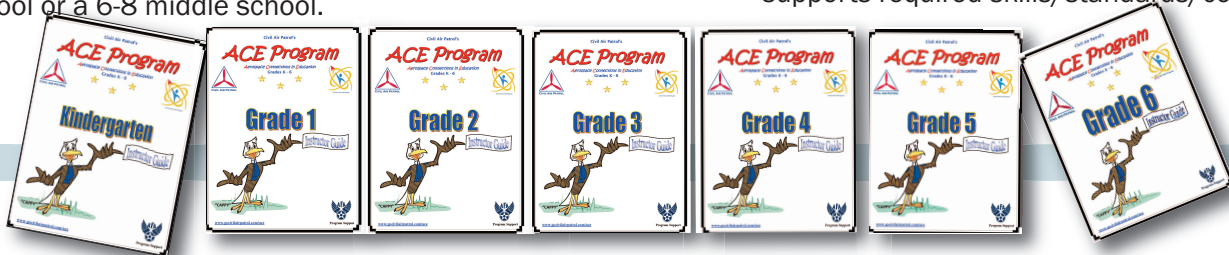
Using the aerospace theme, the ACE program integrates 3 important educational components: *academics, character ed, and physical fitness*. In this cross-curricular program, students can connect content skills with real-life applications and positive adult and teen CAP role models.

## 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](mailto:ace@capnhq.gov)

# ACE

Aerospace Connections in Education

## K-6 STEM program

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!



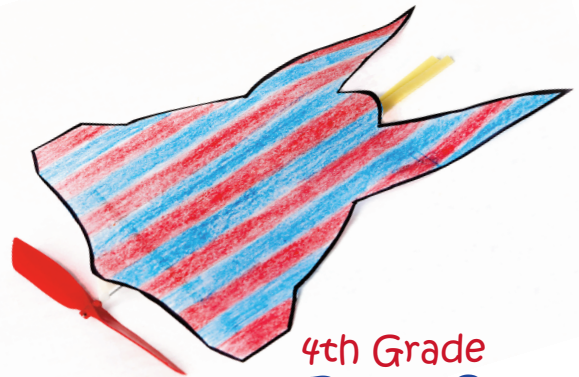
Kindergarten  
Earth balls

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](http://GoCivilAirPatrol.com/ace)



Program Sponsor:  
Air Force Association

Questions?  
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# CAP's ACE Program for AFA Chapters

## How can your chapter be involved?



Open Door Christian School with TX AFA Members

- Connect with a local school and invite an educator to join CAP as an Aerospace Education Member (AEM) with the free AFA Chapter membership sponsorship; then, introduce the [ACE program](#).
- Or, find an ACE school on the list of participating schools [HERE](#) to get started. Contact [afa@capnhq.gov](mailto:afa@capnhq.gov) to get educator contact info.
- Offer to teach one or more of the ACE lessons 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 teacher. Then, have someone stay at the school with the students while the teacher 'live streams' the flight experience back to the classroom.
- Offer the chapter's sponsorship of ACE shirts for the class. Info found [HERE](#).
- Offer to present the end-of-year AFA-sponsored ACE certificates to the students.

## Benefits to your AFA chapter?

- Great AFA public awareness program in the community, especially if ACE shirts, with the AFA logo, are sponsored.
- Exciting opportunity to involve local educators in aviation-related programs, such as field trips to the airport, to aviation museums, or in CAP's Teacher Orientation Program (TOP) flights.
- Get youngsters interested in aviation at an early age to begin preparing them for middle and high school aviation career pathway programs, such as CAP and/or AFJROTC, as well as school aviation programs...one of the AFA's initial efforts to help build the future aviation workforce.

Contact [afa@capnhq.gov](mailto:afa@capnhq.gov) for any assistance/support.