

Civil Air Patrol's MARS Program

Making Aerospace Real for Students



**Building A Better Tomorrow
One Student at a Time**

TEACHERS, motivate your students about science, technology, engineering and mathematics (STEM) curriculum and aerospace careers with fun and exciting activities that align with National Academic Content Standards.


Become an Aerospace Education Member TODAY to receive **FREE Programs & Products!**

Where Imagination Takes Flight

www.cap.gov/ae

Let your classroom take flight . . .

Aerospace is for everyone!



CAP promotes the use of the aerospace education theme to help educators excite and motivate their students to excel in science, math, technology, language arts, social studies, and other traditional subjects. The Aerospace Education Member (AEM) is a special CAP membership category that entitles educators to access free products and programs designed especially for teaching aerospace and integrating this fascinating subject into the curriculum. One program that excites AEMs is the Aerospace Education Excellence (AEX) Award

Program. Other programs, such as the Fly-A-Teacher Program, and products, such as thematic units like the Wright Brothers and the International Space Station, help educator members inspire their students to explore aerospace-related careers. For additional information on the CAP Aerospace Education program, go to www.cap.gov/ae.



What is CAP?



Congressionally incorporated by the United States Congress in 1946, Civil Air Patrol is a nonprofit, humanitarian organization and the volunteer auxiliary of the United States Air Force. The approximately 56,000 volunteer members carry out the mission of Civil Air Patrol which includes:

- Emergency Services (search and rescue, disaster relief, homeland security)
- Cadet and Youth Development
- Promotion of Aerospace Education throughout the country

CAP's Partner in Aerospace Education



The Air Force Association (AFA) is an independent, nonprofit, civilian education organization promoting public understanding of aerospace power and the pivotal role it plays in the security of the nation. AFA recognizes excellence in the education and aerospace fields through national awards programs.

AFA has partnered with Civil Air Patrol to provide \$250 aerospace education grants for CAP teacher members that are designed to promote Science, Technology, Engineering, and Math (STEM) education and encourage development of innovative aerospace activities within the prescribed curriculum. The program also encourages establishing an active relationship between the school and the local Air Force Association.



Aerospace Education Membership (AEM) Application

Name _____

Preferred Mailing Address _____

City _____

State _____

Zip Code _____

Phone - best contact number(s) _____

E-mail address (print clearly) _____

SCHOOL/ORGANIZATION NAME: _____

EMPLOYMENT POSITION _____ GRADE LEVEL(S) _____

TYPE OF SCHOOL/ORGANIZATION _____

**WILL YOU BE PARTICIPATING IN THE FREE AEX AWARD PROGRAM
(AS DESCRIBED ON PAGE 5)?**

- Yes
 No

BACKGROUND

- 1. Citizen of the United States? Yes No
- 2. If no, are you a resident alien with green card? Yes No If "no," attach explanation.
- 3. Ever convicted of a felony? Yes No If "yes," attach explanation.
- 4. Are you **currently** charged with any felony? Yes No If "yes," attach explanation.
- 5. Served in the armed forces? Yes No
- 6. If yes, were you honorably discharged? Yes No If "no," attach explanation.

SIGNATURE OF APPLICANT _____

DATE _____

SOCIAL SECURITY NUMBER _____

Membership commences on the date processed by National Headquarters and the individual's name appears on the National Headquarters database.

(Strictly protected. Questions call Debbie Dahl at 877-227-9142 Ext 409)

MEMBERSHIP FEE - \$35 per year

- Check - payable to National Headquarters, Civil Air Patrol
- Credit card - complete the following information:
- Visa Master Card Discover

Credit Card Number _____

Expiration Date _____

Name as it appears on credit card _____

Signature of credit card holder _____

SEND TO:

CIVIL AIR PATROL / AE
Aerospace Education Membership
105 S. Hansell St. Building 714
Maxwell AFB, AL 36112-6332
FAX: (334) 953-6891
E-mail: ae@cap.gov
(send scanned, completed application as attachment)

For CAP NHQ use only!

NAT CC/DESIGNEE: INITIAL / DATE _____

Special Application Number 021507

Lift-Off for AEX ...

As a new AEM you are eligible to participate in the Aerospace Excellence Awards Program (AEX).

It's easy, it's fun, it's rewarding, and it's FREE!

Flexibility

This exciting program can be presented by an educator to students any time during the school year. It can be integrated into any area of the curriculum or used as an after-school program.

Variety

Educators can select activities from four age-appropriate books (AEX I Vols I and II are designed for K-5 and AEX II and Vols I and II are for grades 6-12). Each book contains numerous fun-filled, hands-on, educational activities to excite and motivate students. National Content Standards have been identified for each activity.



"I have witnessed how hands-on science can motivate student learning and can be integrated well with all subject areas."

Jill Gugisberg Wall, AEM

What to do...

- ◆ Check the AEX box on the AEM application on page 4.
- ◆ Complete the easy requirements of the program:
 - ◇ Six aerospace activities during the current school year. (The activities can be from either the AEX curriculum or from your school curriculum. Please submit a copy of any lesson used from your curriculum.)
 - ◇ One, two-hour aerospace-related activity (such as an airport tour or other aerospace field trip; building and launching hot-air balloons or rockets; aerospace career day or any meaningful aerospace activity as determined by the educator).
- ◆ When finished with the program complete and submit the AEX report form on page 6 to CAP.
 - ◇ If desired, attach (or send via e-mail) photos and explanations of some activities for possible inclusion in future CAP publications. Media releases required for students. Photos will not be returned.
- ◆ Participation in the AEX program is available to members annually.
- ◆ Email questions to: aex@cap.gov



Rewards



Educator participation is rewarded with a beautiful plaque and each student receives an impressive Certificate of Completion.



As an added reward, educators may choose to receive one hour of graduate credit through Adams State College if they qualify. (To find out more about this opportunity, e-mail aex@cap.gov.)



The AEX Award Report



Please submit four weeks prior to date needed. Allow four weeks for delivery of plaque and certificates.

Mr. Ms. Mrs. Other

Teacher Name _____

School or Organization Name (Please Print) _____

Preferred Mailing Address _____

City _____

State _____ Zip Code _____

Date _____

Activity 1

AEX Title _____

Or Teacher's Own Lesson Plan Title: (attach a copy of this lesson plan)

Activity 2

AEX Title _____

Or Teacher's Own Lesson Plan Title: (attach a copy of this lesson plan)

Activity 3

AEX Title _____

Or Teacher's Own Lesson Plan Title: (attach a copy of this lesson plan)

Activity 4

AEX Title _____

Or Teacher's Own Lesson Plan Title: (attach a copy of this lesson plan)

Activity 5

AEX Title _____

Or Teacher's Own Lesson Plan Title: (attach a copy of this lesson plan)

Activity 6

AEX Title _____

Or Teacher's Own Lesson Plan Title: (attach a copy of this lesson plan)

Two-Hour Aerospace-Related Activity

Please send me _____ AEX Student Award Certificates for participating students

Send this report and attach substitute lesson plans (if used) to:
Civil Air Patrol/AE
105 S. Hansell St.
Maxwell AFB, AL 36112
or you may...
FAX to: (334) 953-6891 or
E-mail to: aex@cap.gov

AEMs Can Lead CAP's School Enrichment Programs...

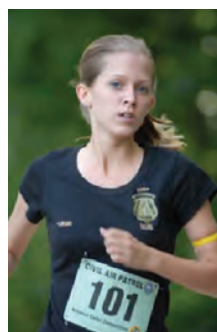
CAP's Cadet Program is offered to students in grades 6-12. Currently, there are 22,000 cadets throughout the nation. The cadet squadrons meet in airports, churches, museums, and schools. The school squadrons are part of the School Enrichment Program (SEP) and meet either during school as an elective subject or as an after-school enrichment program, addressing many areas of the No Child Left Behind Act. Opportunities for youth include: orientation airplane and glider flights; aerospace career field experiences; international travel; and awards and scholarships.

The basic elements of CAP's core cadet program are:

- principles of effective leadership;
- strength of integrity through character;
- knowledge of aerospace and related career opportunities; and
- life-long benefits of physical fitness and a drug-free lifestyle.



For more information on CAP's Cadet Program and the 6-12 SEP for middle and high schools, go to www.cap.gov/cadets wherein phenomenal educational opportunities and a complete curriculum for our nation's youth is found. AEMs can initiate a 6-12 SEP in any school.



CAP Cadets: racing toward a high-flying future with: physically-fit, drug-free lives; integrity; goals; focus; leadership; knowledge; and opportunity!

In an effort to address America's need for early youth development programs, the CAP National Board voted in March 2007 to expand the SEP to encompass kindergarten through sixth grade (K-6). Accordingly, CAP developed a prototype elementary program for AEMs to field-test during the 2007-2008 and 2008-2009 school years. More info is found at www.cap.gov/school

- The K-6 SEP for elementary schools mirrors the basic elements of CAP's middle and high school cadet program.
- The curriculum was designed by educators and incorporates fun, hands-on activities with lesson plans that meet national academic standards.
- The materials enrich most school systems' standard core curricula and address critical Science, Technology, Engineering and Math (STEM) educational initiatives.
- 23 schools in 8 states across the country are part of the '07-'08 and '08-'09 field testing of the prototype program.
- Over 300 CAP AEMs and approximately 7,000 students are participating nationwide.



For more information contact:

SEP Managers – Susan Mallett at smallett@cap.gov
Angie St. John at astjohn@cap.gov

"I cannot imagine my science classroom without the integration of aviation/aerospace education. It brings the information/knowledge that I present 'to life.' I am grateful for the wonderful support that CAP gives to my students and me."

Jeri Martin, AEM and 2006 Crown Circle for Aerospace Education Leadership Winner



Educators! Experience the CAP Fly-a-Teacher Program



PARTICIPATE IN THIS EXCITING PROGRAM OF INSTRUCTION, DISCOVERY, AND FLIGHT. SHARE YOUR FLIGHT EXPERIENCE WITH YOUR STUDENTS TO INCREASE THEIR AEROSPACE INTEREST AND KNOWLEDGE.

To arrange your Teacher Orientation Flight (TOF), please contact Judy Stone at jstone@cap.gov. Judy will then locate the TOF Coordinator in your state who will coordinate this with you. But... it is more fun to fly with a friend! Encourage one of your peers to join CAP with you and you can fly together. The BEST experience is with several members of your school or school system joining together and planning a fun-filled TOF Day!

Other exciting opportunities for any teacher who joins CAP:

- AEX Awards Program – info found inside this brochure
- Graduate credit for participation in the AEX Awards Program- for more information go to www.cap.gov/ae – click on Adams State College AEX graduate credit
- \$250 educator grant opportunities from the Air Force Association (AFA)
- AFA-sponsored memberships – contact your local AFA Chapter to determine if they would be willing to sponsor your membership in CAP. Go to https://www.afa.org/contact_link_search.asp to find a chapter contact person near you.
- School Enrichment Program (SEP) opportunities for your school – info found inside this brochure



www.afa.org



Civil Air Patrol National Headquarters
Aerospace Education/AE
105 S. Hansell St. • Maxwell AFB, Ala. 36112-6332

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