

# Civil Air Patrol

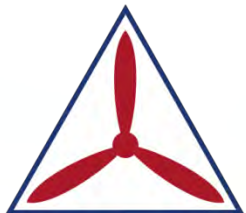
## Aerospace Education and STEM

[www.gocivilairpatrol.com](http://www.gocivilairpatrol.com)



***Lynda MacPherson***

***Alaska Wing Director of Aerospace Education***



# Getting Started

✈ Go to: [www.capnhq.gov](http://www.capnhq.gov)

✈ Click on *First Time User*



**eSERVICES**  
CIVIL AIR PATROL

CITIZENS SERVING  
COMMUNITIES

## SIGN IN

CAPID or USER NAME **Required**

PASSWORD **Required**



I'm not a robot



reCAPTCHA  
Privacy - Terms

Sign In

## FIRST TIME USERS?

[Click here to register](#)



## PASSWORD ASSISTANCE?

[Click here for password assistance](#)

## MORE INFORMATION?

[www.gocivilairpatrol.com](http://www.gocivilairpatrol.com)

[www.capmembers.com](http://www.capmembers.com)

[WMIRS](#)

[Volunteer Now](#)

[National Cadet Special Activities](#)

[Knowledgebase](#)

[Privacy and Legal Information](#)

[Helpdesk](#)



# Enter the following fields and check your email for link to create password



eServices

## eServices Home

### NEW USER REGISTRATION

This page allows current CAP members to self-register for a Username and Password via email for eServices. To complete the registration process, please provide your Last Name, Last 4 of Social Security Number, Date of Birth and a valid Email address. If this self-registration fails, check your membership card to be sure your membership is current. If your membership is not current, and you would like to renew, please contact NHQ Personnel at 877-227-9142. Only contact personnel if you wish to renew or have a question about membership eligibility. Direct all other technical, web-related problems to the [Help Desk](#).

\*Last Name

\*Last 4 digits of Social Security Number

\*Date of Birth (MM/DD/YYYY)

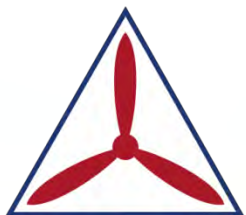
\*Email Address

Register

Clear

\* - Required Field





# With your new password you just created log into eServices



**eSERVICES**  
CIVIL AIR PATROL

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## SIGN IN

CAPID or USER NAME **Required**

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☐

I'm not a robot



reCAPTCHA  
[Privacy](#) - [Terms](#)

**Sign In**

## FIRST TIME USERS?

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## PASSWORD ASSISTANCE?

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[www.gocivilairpatrol.com](http://www.gocivilairpatrol.com)

[www.capmembers.com](http://www.capmembers.com)

[WMIRS](#)

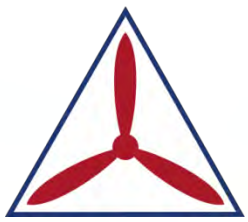
[Volunteer Now](#)

[National Cadet Special Activities](#)

[Knowledgebase](#)

[Privacy and Legal Information](#)

[Helpdesk](#)



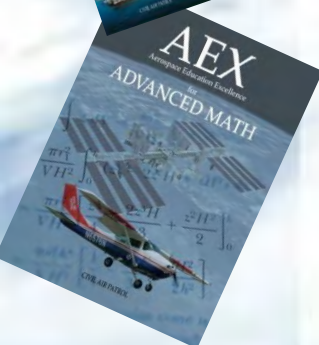
# Next we will learn how to:

- ✈ Order and download curriculum
- ✈ How to order STEM kits
- ✈ How to complete STEM kit evaluation
- ✈ How to enroll class in ACE program
  - ✈ Aerospace Connections in Education K-6 grades
- ✈ How to enroll class in AEX program
  - ✈ Aerospace Education Excellence K-12 grades
- ✈ How to schedule TOP flight
  - ✈ Teacher Orientation Program

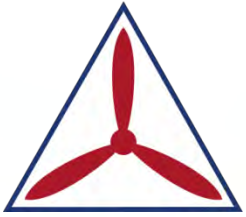


# Aerospace Curriculum

## Grades PK-12



- ★ Astronomy
- ★ Model Rocketry
- ★ Unmanned Aerial Vehicles
- ★ Advanced Math
- ★ Journey of Flight
- ★ Women in Aviation
- ★ Robotics
- ★ Cybersecurity
- ★ Middle School Physical/Life Science
- ★ STK Toolkit Satellites
- ★ Aerospace Careers
- ★ Wright Brothers
- ★ Charles Lindbergh
- ★ Amelia Earhart
- ★ Uncle Wiggly Wings
- ★ Air/Space Vehicles
- ★ Logic and Puzzles
- ★ Aerospace for the Very Young
- ★ Aerospace Excellence
- ★ Fun in Flight
- ★ CAP-TERS
- ★ International Space Station
- ★ MARC – Model/Remote Aircraft
- ★ Aerospace Dimensions



# HOW DO I ORDER BOOKS/CURRICULUM?











# Start on Menu and Click Aerospace Education then Request AE Materials



Menu 

Search Applications


Administration 

Aerospace Education  

**Applications**

- ACE Registration
- AE Downloads and Resources
- AE POA and Activity Report
- AEX
- CAP STEM Kit

**Other Resources**

- Request AE Materials 

**Regulations**

- R280-2 - Civil Air Patrol Aerospace Education Mission

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th  
(PCR-001):  
AK-001):  
AK-073):  
nerson





# Select which curriculum you want

## Limit 6 hard copies

[Overview](#)  
[Instructions](#)

### Materials

[Order Request](#)  
[Order Status](#)

\*Denotes Required Fields

#### \*Material Category

AE Materials

Requester: 1st Lt Lynda S. MacPherson

Receiver: Lynda MacPherson

Address

1:

Address

2:

City:

State: AK Zip: 9962393

\*Reason for request max. 0/250 characters

☐ Need By Date

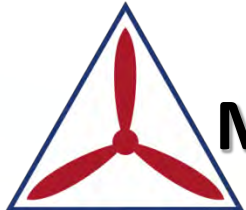
**IMPORTANT: At least two weeks advance are needed for AE order request!**

Material Name	Material Group	Max Quantity	*Quantity
AEX MARC (Model Aircraft and Remote Control)	Grades 6-12 and Adults	1	<input type="text"/>
AEX MARC II	Grades 6-12 and Adults	--	<input type="text"/>
Advanced Math	Grades 10-College	--	<input type="text"/>
Advanced Rocketry	Grades 6-12	--	<input type="text"/>
Aerospace for the Very Young (ages 4-8)	Grades K-3	1	<input type="text"/>
Amelia Earhart Activity Booklet	Grades K-3	1	<input type="text"/>
Amelia Earhart Learning Booklet	Grades 4-9	1	<input type="text"/>
Astronomy Activity Book	Grades 5-12 and Adults	--	<input type="text"/>
Astronomy Module	Grades 5-12 and Adults	--	<input type="text"/>
CAP Paper Airplanes (1 package = 25 paper airplanes)	ALL	1	<input type="text"/>
Charles Lindbergh Activity Booklet	Grades K-6	1	<input type="text"/>
Charles Lindbergh Learning Booklet	Grades 6-9	1	<input type="text"/>
Earth and Space Science	Grades 6-9	--	<input type="text"/>
Fun in Flight: Exploring Careers in the Aerospace World Booklet	Grades K-3	1	<input type="text"/>
Historical Aircraft Drawing Lessons from Aerospace History (dot-to-dot drawing book)	Grades K-6	1	<input type="text"/>
Introduction to Robotics	Grades 6-9	1	<input type="text"/>
Life Science	Grades 6-9	--	<input type="text"/>
Model Rocketry	Grades 6-9	1	<input type="text"/>
Physical Science	Grades 6-9	1	<input type="text"/>
The Aerospace Curriculum (an index of related topics)	Grades K-12	1	<input type="text"/>



# HOW DO I DOWNLOAD BOOKS/CURRICULUM?





# To Download Unlimited Curriculum Main Menu Select Aerospace Education the AE Downloads and Resources



Menu



eServices

Search Applications

Administration

Aerospace Education

## Applications

ACE Registration

AE Downloads and Resources

AE POA and Activity Report

AEX

CAP STEM Kit

## Other Resources

Request AE Materials

## Regulations

R280-2 - Civil Air Patrol Aerospace Education Mission

## Approvals/Validations

(1) [Cadet Promotion Approvals](#)

(0 Transfers In & 11 Transfers Out)

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th

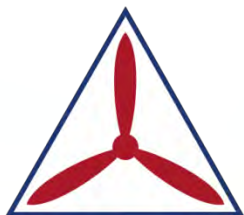
(PCR-001):

AK-001):

AK-073):

erson





# Select any book to download

## Many have different versions to choose from

Modules  
Downloads

\*Denotes Required Fields

### Aerospace Downloads & Resources



4-in-1 Activity Books



ACE Program Curriculum Guides



Aerospace Dimensions Modules



Aerospace Dimensions Modules



Aerospace Dimensions Modules



Aerospace for the Very Young



Aerospace: The Journey of Flight



Aerospace: The Journey of Flight



Aerospace: The Journey of



AEX for Advanced Math



AEX for Life Science



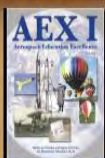
AEX for Middle School Earth &



AEX for Middle School Physical



AEX for Senior Members



AEX I



AEX II



Air and Space Vehicles Dot-to-



Amelia Earhart Activity Booklet



Amelia Earhart Thematic



Astronomy



Charles Lindbergh Activity



Charles Lindbergh Thematic



Civil Air Patrol Teachers



Computing with the Raspberry Pi



Fun in Flight



General Aviation Thematic



Introduction to Robotics



Mini-Book of Logic and Puzzles



Model Aircraft Remote Control



Model Rocketry



Satellite ToolKit



The International Space Station



Uncle Wiggly Wings



Unmanned Aerial Vehicles

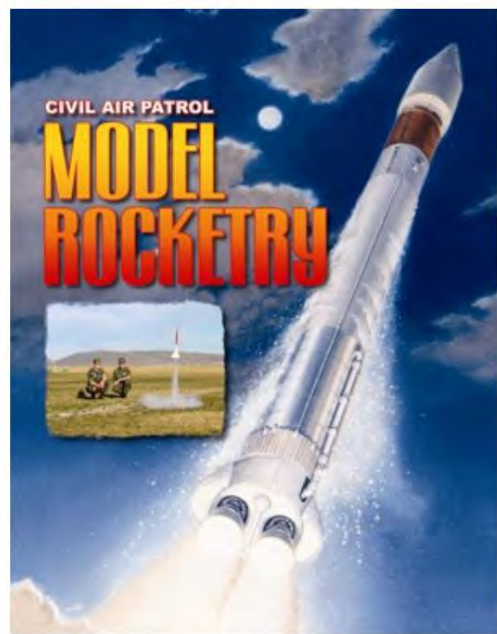
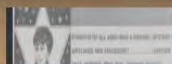


Women in Aviation





# Click the book you are interested in and this will pop up all books available in that series



[\\*Download All Files](#)

## Model Rocketry

[Advanced Rocketry](#)  
[Spanish Language Version](#)

[Model Rocketry \(2015\)](#)

[Certificate](#)



[Mini-Book of Logic and Puzzles](#)



[Model Aircraft Remote Control \(MARC\)](#)



[Model Rocketry](#)



[Satellite ToolKit](#)



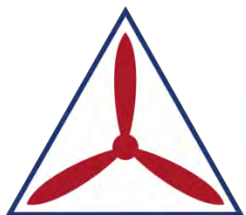
[The International Space Station Teacher Lesson Plans](#)



[Uncle Wiggly Wings](#)



[Unmanned Aerial Vehicles](#)



# EXAMPLES

## AEX I Vol I

### Activity Seven: Robotic Arm

#### Objective:

Children will build a robotic arm and learn about how robots can assist people.



#### National Science Standards

Content Standard E: Science and Technology

- Abilities of technological design
- Understandings about science and technology

#### Background Information:

Robots are excellent helpers. They never get bored, tired, care about getting dirty nor are concerned about getting hurt on the job. Robots help in manufacturing, research, medical treatment, entertainment and space. NASA uses robots to explore Earth and the other planets and to move payloads around on the Space Shuttle. They also help out on the International Space Station.

One of the important objectives in the development of robots is to enable robots to interact with their environment. Interaction is often accomplished with some sort of arm and gripping device or end effector.

#### Materials:

- Wooden craft sticks
- Drill
- Small brass paper fasteners
- Light materials to pick up

#### Procedure:

1. The teacher should drill holes through the craft sticks as shown in the diagram. Each child will need four drilled sticks, four brass paper fasteners, and one craft stick broken in half (for the end effector). Dampening the sticks before drilling can reduce cracking the wood.

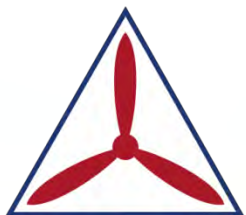


2. Have children assemble the robotic arm as shown in the diagram.



3. Children can break one of the sticks in half and glue each half to the end of the arm (pointing in) making an end effector or you can let them experiment with other ways to create an end effector to pick up a Styrofoam™ cup or other light materials.





# AEX II Vol II pg.52



## CD HOVERCRAFT

### OBJECTIVE

*The purpose of this activity is to build a simple hovercraft from inexpensive, everyday supplies.*

### NATIONAL SCIENCE STANDARDS (NRC)

**Content Standard B: Physical Science**

Motions and forces

**Content Standard E: Science and Technology**

Abilities of technological design

**Unifying Concepts and Processes**

Evidence, models, and explanation

### BACKGROUND

A hovercraft is also known as an ACV or "air cushion vehicle." It travels on a layer of compressed air that keeps just above the surface of the Earth. The compressed air serves as an invisible cushion that eliminates almost all of the friction between the vehicle and the ground. Numerous hovercraft are used around the world for civilian and military purposes.

### PROCEDURE

1. The pop-up lid is hot-glued to the water-bottle cap. Be sure that your glue is applied only to the perimeter of the lid and that you make a good airtight seal to the CD.
2. Make sure the lid is in the closed position.
3. Inflate the balloon, twist it so that the air doesn't come out.
4. Install the balloon onto the bottle lid.
5. Try sliding the balloon along and you will notice a resistance to movement.
6. Now carefully release the lid sealer and let the air flow through the CD. You will notice the little hovercraft starts to move.
7. Blow the balloon up again and when the pressure is released, flick it with your finger and you will be amazed to see it glide away.
8. Variations on this project include a larger balloon and various surfaces. Fun Stuff!

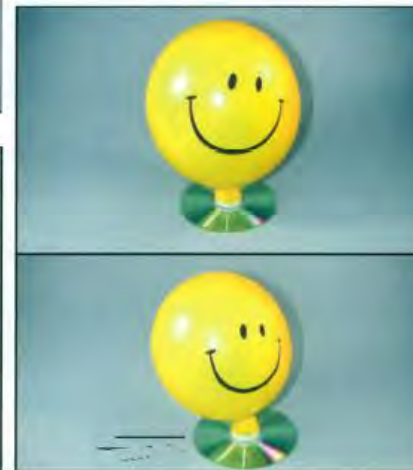
**CREDIT** - This wonderful activity was taken from the "Energy and Control - Energy From Wind and Water" by the Quinte School Group, WOW Science Initiative- May 2001.

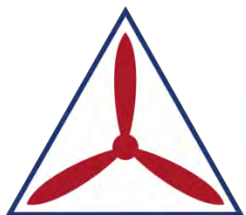
**Related web sites:**

<http://www.jameshovercraft.co.uk/Frames/index.htm>  
<http://www.hoverclubofamerica.org/>

### MATERIALS

1. A toy balloon
2. A pop-up lid from a water bottle
3. A hot glue gun
4. A used CD





# AEX II Vol II pg. 30



## activity six

### BUILDING THE NASA WIND TUNNEL

#### OBJECTIVE

*A wind tunnel is a great test device and the purpose of this activity is to build an inexpensive model that can be constructed as a classroom or squadron project.*



A Great  
Scientific Tool -  
For A Cost of  
About 50 Cents

Table 1. Drag Force Value

FAN SPEEDS									
	Low Speed			Medium Speed			High Speed		
	Test 1	Test 2	Test 3	Test 1	Test 2	Test 3	Test 1	Test 2	Test 3
Tetrahedron									
Pyramid									
Cube									
Cone									

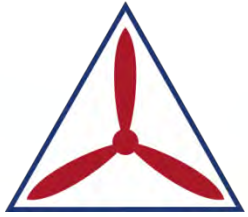
Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Table 2. Drag Force Value Calculations

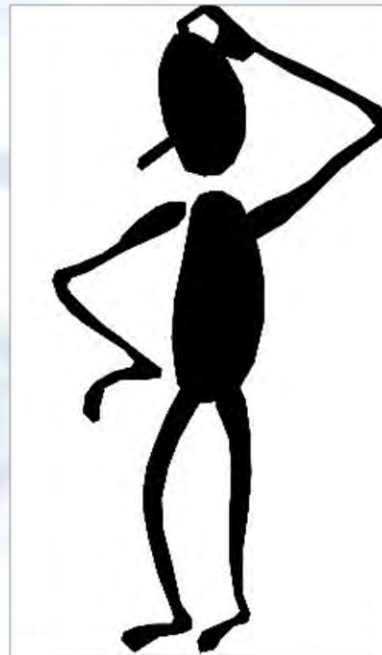
FAN SPEEDS									
	Low Speed			Medium Speed			High Speed		
	Mean	Median	Mode	Mean	Median	Mode	Mean	Median	Mode
Tetrahedron									
Pyramid									
Cube									
Cone									

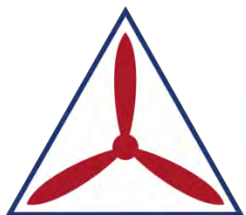
Used by permission from the Program 1 in the 1999-2000 NASA CONNECT Series.  
 The Measurement of all Things: Tools of the Aeronautics Trade - Lesson Guide





# HOW DO I ORDER A STEM KIT?





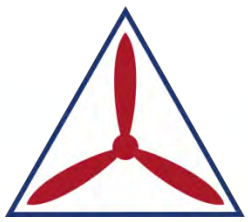
# Currently Raspberry Pi and RC airplane are not available



## Civil Air Patrol/Aerospace Education Member's **STEM Kit Program**

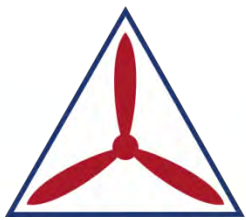


AVIATION	SPACE	CYBER
 AngLegs	 Astronomy	 Bee-Bot/ Code & Go Mouse
 Build & Learn Geometry	 Hydraulic Engineering	 Kano
 Cross Country Navigation	 Renewable Energy	 Raspberry Pi
 Flight Simulator	 Robotics	 Sphero Mini/ Sphero SPRK+
 Quadcopter	 Rocketry	 Virtual Reality Goggles
 Ready To Fly Quads	 Weather Station	
 Remote- Controlled Aircraft		
 Snaptricity		



# STEM Kit Timeline

- ➔ Complete CAP STEM Kit application through eServices
    - ➔ National Headquarters determines the number of Free STEM kits being sent based on (number of students & value of STEM kit)
  - ➔ Applications are reviewed on 1<sup>st</sup> of each month therefore, always place your order BEFORE the end of the month
  - ➔ You typically will receive your STEM kit before the end of the month
  - ➔ Complete the 10 question online evaluation in eServices
  - ➔ Submit your next application for a different STEM kit
- \*Remember you can use STEM kits to teach other subjects or share them with other teachers*



# Main Menu select Aerospace Education then CAP STEM kit



Menu

Search Applications

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Aerospace Education

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AE POA and Activity Report

AEX

CAP STEM Kit

## Other Resources

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## Regulations


R280-2 - Civil Air Patrol Aerospace Education Mission








# Click Apply for STEM kit at top of the page



 Menu

 eServices

 1st Lt Lynda S. MacPherson 

[Home](#)[Apply for STEM Kit](#)[Submit Evaluation](#)[Upload STEM Kit Photos](#)

[APPLY FOR A STEM KIT](#)[COMPLETE AN EVALUATION](#)



# Complete all boxes on the application



## STEM Kit Application

Step: 1 of 2

### Applicant Info

Rank

1st Lt

First Name

Lynda

Last Name

MacPherson

CAPID

605271

Email Address

lynda.macpherson@akwg.cap.gov

Phone Number

(907) 240-7888

Select Category

--Select One--

### School or Organization Info

Complete Name of School or Organization

Mailing Address

City

State

--Select--

Zip

### Commander's, School Principal's, or Supervisor's Info

Name

Col Kevin A. McClure

Phone Number

(907) 248-3918

Email Address

105982@akwg.cap.gov

### STEM Kit History

Is this your first STEM kit?

YES ☐ NO ☐

Select ONE STEM Kit from the following 3 Core Areas:

#### Aviation

- ☐ AngLegs
- ☐ Build & Learn Geometry
- ☐ Cross Country Navigation
- ☐ Flight Simulator
- ☐ Quadcopter
- ☐ Ready To Fly Quads
- ☐ Remote-Controlled Aircraft
- ☐ Snaptricity

Number of Participants

Number Only

#### Cyber

- ☐ Bee-Bot/Code & Go Mouse
- ☐ Kano
- ☐ Raspberry Pi
- ☐ Sphero Mini/Sphero SPRK+

Age(s) Involved

- ☐ 0-5
- ☐ 6-11
- ☐ 12-18
- ☐ 18-21
- ☐ 21 and above

#### Space

- ☐ Astronomy
- ☐ Hydraulic Engineering
- ☐ Renewable Energy
- ☐ Robotics
- ☐ Rocketry
- ☐ Weather Station

How many computers will be dedicated to this project?

Number Only

STEM Kit Project Description (Plan)

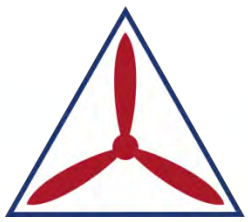
max. 0/1000 characters

Collaborative effort is encouraged. Name the groups, classes, or units participating with this kit.

max. 0/1000 characters

Desired STEM Kit Project Outcome

max. 0/1000 characters



# **HOW DO I SUBMIT MY STEM KIT EVALUATION?**





Main Menu select Aerospace Education then CAP STEM kit



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CAP STEM Kit

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# Click Evaluation

**\*Your kit is already listed so just click Submit Evaluation to proceed**



Menu  eServices 1st Lt Lynda S. MacPherson

[Home](#) [Apply for STEM Kit](#) [Submit Evaluation](#) [Upload STEM Kit Photos](#)

**APPLY FOR A STEM KIT** **COMPLETE AN EVALUATION**

[Home](#) [Apply for STEM Kit](#) [Submit Evaluation](#) [Upload STEM Kit Photos](#)

### Personal Evaluations

Show 25 entries Search:

	CAPID	First Name	Last Name	Category	Email Address	STEM Kit	Organization	STEM Kit Year
<a href="#">Submit</a>	605271	LYNDA	MACPHERSON	CAP AE Officer	605271@akwg.cap.gov	Robotics	PCR-AK-001 - ALASKA WING HQ	2019

Showing 1 to 1 of 1 entries Previous 1 Next



# Complete the 10 question evaluation and submit. You are ready to order your next STEM kit



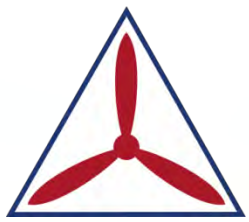
Step: 1 of 3

Evaluation for PCR-AK-001 - ALASKA WING HQ (2019)				
Rank	First Name	Last Name	CAPID	
1st Lt	Lynda	MacPherson	605271	
Email Address	Phone Number	Category		
lynda.macpherson@akwg.cap.gov	(907) 240-7888	CAP AE Officer		
STEM Kit	Year	Month Kit Received		
Robotics	2019	--Select--		

Step: 2 of 3

Provide a thorough response to each area below to describe kit implementation and benefits to promote STEM education and careers to students and any other collaborative group(s).

<p>*1. Explain when, where, and how many hours the STEM Kit was used</p> <div></div> <p>max. 0/500 characters</p>											
<p>*2. Give details of which youth actually used the STEM Kit (if a collaborative effort, include all groups)</p> <div></div> <p>max. 0/500 characters</p>											
<p>*3. Explain exactly how the kit was used (as unit or class AE activity; as part of CAP's AEX program; as community outreach event, etc.)</p> <div></div>											
<p>*4. Describe the benefit(s) of the kit to the youth with whom you worked (specific examples, general observations, or both)</p> <div></div> <p>max. 0/500 characters</p>											
<p>*5. Provide any unique experiences or observations that evolved from the kit usage.</p> <div></div> <p>max. 0/500 characters</p>											
<p>*6. Provide one or more quotes from you and/or any youth or adult involved in the program to describe the STEM Kit experience. Please note to whom the quote is attributed.</p> <div></div> <p>max. 0/500 characters</p>											
<p>*7. On a scale of 1-5, with 1 being the lowest &amp; 5 being the highest, please rate the following:</p> <table><tbody><tr><td>a. Quality of the kit components &amp; materials sent by the vendor(s)</td><td></td></tr><tr><td>b. Quality of additional educational materials provided by CAP</td><td></td></tr><tr><td>c. Alignment with CAP's AE program</td><td></td></tr><tr><td>d. Adequate # of lessons/activities to extend beyond 1-2 instructional sessions</td><td></td></tr><tr><td>e. Opportunity to discuss STEM careers related to this particular kit subject area</td><td></td></tr></tbody></table>	a. Quality of the kit components & materials sent by the vendor(s)		b. Quality of additional educational materials provided by CAP		c. Alignment with CAP's AE program		d. Adequate # of lessons/activities to extend beyond 1-2 instructional sessions		e. Opportunity to discuss STEM careers related to this particular kit subject area		
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b. Quality of additional educational materials provided by CAP											
c. Alignment with CAP's AE program											
d. Adequate # of lessons/activities to extend beyond 1-2 instructional sessions											
e. Opportunity to discuss STEM careers related to this particular kit subject area											



# Aerospace Connections in Education

## ACE Program K-6



- ➔ Introduction to CAP/aviation
- ➔ In/after school program
- ➔ 30-45 minutes
- ➔ Registration opens August 1st!
- ➔ Open to any school
- ➔ 21 aerospace-themed lessons
  - ➔ 9 academic lessons
  - ➔ 6 character lessons
  - ➔ 6 physical fitness lessons
- ➔ 1 set manipulatives for every student
- ➔ ACE student & teacher certificates upon completion





# **ACE LOOKS AWESOME! HOW DO I ENROLL MY CLASS?**







# Click Menu then Aerospace Education then ACE Registration



Menu

Search Applications

Administration

Aerospace Education

## Applications

ACE Registration

AE Downloads and Resources

AE POA and Activity Report

AEX

CAP STEM Kit

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R280-2 - Civil Air Patrol Aerospace Education Mission



# Click on Registration and complete the form

## Registration opens August 1



### ACE Registration Main

eServices | Sign Out

About ACE  
Registration

Home

Overview

Modules

Registration  
Completion Form

Documentation

Instructions

\* Denotes Required  
fields

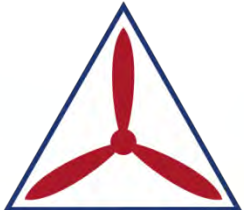
## Welcome to ACE Registration Main Menu

**CIVIL AIR PATROL**  **ACE REGISTRATION**



**CIVIL AIR PATROL**  
UNITED STATES AIR FORCE AUXILIARY

**CITIZENS SERVING  
COMMUNITIES**



# Complete Tab 1

## ACE REGISTRATION

eServices | Sign Out | 1st Lt Lynda S. MacPherson

About ACE  
Registration

Overview

Modules

Registration  
Completion Form

Documentation

Instructions

\* Denotes Required  
fields

Home > Modules > Registration

### ACE ONLINE REGISTRATION

The ACE Program is designed to be used as an in-school elementary program. If your school or organization is interested in running this program as an after-school type of program, please email your inquiry to [ace@capnhq.gov](mailto:ace@capnhq.gov).

Individual Information | School & Student Information | ACE History | SUBMIT

#### Step 1 of 4:

##### \*Suffix

--Select--

##### \*First Name

LYNDA

##### \*Last Name

MACPHERSON

##### \*Select Title

--Select--

##### \*Work Email

##### \*Confirm Work Email

##### \*Please check the ACE curriculum guide(s) you will use for your class(es):

- ☐ K curriculum
- ☐ 1ST grade curriculum
- ☐ 2ND grade curriculum
- ☐ 3RD grade curriculum
- ☐ 4TH grade curriculum
- ☐ 5TH grade curriculum
- ☐ 6TH grade curriculum
- ☐ School Administrator; will not use a curriculum guide

ACE curriculum guides are available for download in eServices (click "AE Downloads" after logging in).

NEXT  
TAB





# Complete Tab 2



## ACE REGISTRATION

eServices | Sign Out | 1st Lt Lynda S. MacPherson

### About ACE Registration

Overview

### Modules

Registration  
Completion Form

### Documentation

Instructions

\* Denotes Required  
Fields

Home > Modules > Registration

### ACE ONLINE REGISTRATION

The ACE Program is designed to be used as an in-school elementary program. If your school or organization is interested in running this program as an after-school type of program, please email your inquiry to [ace@capnhq.gov](mailto:ace@capnhq.gov).

Individual Information | School & Student Information | ACE History | SUBMIT

#### Step 2 of 4:

##### Select State

--Select--

##### Select School

▼

Select a state above, and then click your school's name under "Select School."

If your school's name does not appear in the drop down box, please select SCHOOL NOT LISTED and enter it below.

##### \*School Name

##### \*Select School Type

--Select--

##### School Mailing Address

##### \*Address

##### Address 2

##### \*City

##### \*State

--Select--

##### \*Zip

##### \*School Phone Number

##### \*Last Student Month of School

--Select--

##### \*Last Student Day of School

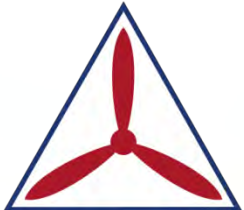
--Select--

CAREFULLY read each of the school code descriptions below and check which school code correctly describes your school regarding the ACE Program.

- ☐ SCHOOL CODE A (All K-6 classes at my school are participating in the program.)
- ☐ SCHOOL CODE I (Not all of the K-6 classes are participating at my school.)
- ☐ SCHOOL CODE S (Specialist at my school participating in the program.)
- ☐ SCHOOL CODE H (My school is actually a home school.)

[PREVIOUS TAB](#)

[NEXT TAB](#)



# Complete Tab 3

## ACE REGISTRATION

eServices | Sign Out | 1st Lt Lynda S. MacPherson

### About ACE Registration

[Overview](#)

### Modules

[Registration](#)

[Completion Form](#)

### Documentation

[Instructions](#)

\* Denotes Required  
Fields

[Home](#) > [Modules](#) > [Registration](#)

### ACE ONLINE REGISTRATION

The ACE Program is designed to be used as an in-school elementary program. If your school or organization is interested in running this program as an after-school type of program, please email your inquiry to [ace@capnhq.gov](mailto:ace@capnhq.gov).

[Individual Information](#) [School & Student Information](#) [ACE History](#) [SUBMIT](#)

#### Step 3 of 4:

#### ACE HISTORY

##### \*How did you learn about the ACE Program?

- ☐ Conference or  
Workshop ☐ CAP  
Website ☐ Word of Mouth (e.g. friend, fellow co-  
worker) ☐ News  
Letter

##### Is this your first year as an ACE teacher?

- ☒ Yes ☐ No

[PREVIOUS TAB](#)

[NEXT TAB](#)



# Complete Tab 4 and Submit

## ACE REGISTRATION

eServices | Sign Out | 1st Lt Lynda S. MacPherson

### About ACE Registration

Overview

### Modules

Registration

Completion Form

### Documentation

Instructions

\* Denotes Required  
Fields

Home > Modules > Registration

### ACE ONLINE REGISTRATION

The ACE Program is designed to be used as an in-school elementary program. If your school or organization is interested in running this program as an after-school type of program, please email your inquiry to [ace@capnhq.gov](mailto:ace@capnhq.gov).

Individual Information | School & Student Information | ACE History | **SUBMIT**

#### Step 4 of 4:

**IMPORTANT** Please mark that you have read and understand the following:

- ☐ I understand that students are expected to receive at least 10 ACE lessons in order to successfully complete the program.
- ☐ I understand that I am responsible for submitting an online completion form at least 3 weeks prior to needing my student certificates.
- ☐ **If unforeseen circumstances prevent program completion, I understand I need to notify [ace@capnhq.gov](mailto:ace@capnhq.gov) as soon as possible.**

[PREVIOUS TAB](#)

Submit Clear All



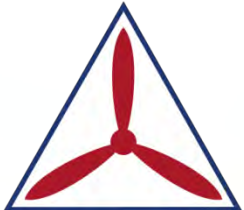


# Aerospace Education Excellence – AEX Program



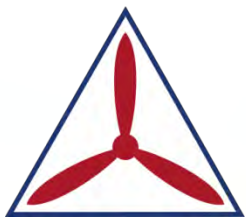
- ➔ Grades K-12 eligible
- ➔ AEX full-color books featuring aerospace/STEM activities.
- ➔ Requirements for full implementation
  - ➔ Complete six AEX/STEM activities
  - ➔ Complete a two-hour or longer field experience
  - ➔ Opens October 1






# **HOW DO I REGISTER MY STUDENTS IN AEX?**





# Main Menu then Aerospace Education and then AEX

 Menu

Search Applications

Administration

Aerospace Education

**Applications**

ACE Registration

AE Downloads and Resources

AE POA and Activity Report

AEX


CAP STEM Kit

**Other Resources**

Request AE Materials

**Regulations**

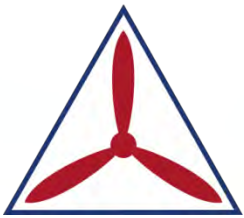
R280-2 - Civil Air Patrol Aerospace Education Mission

 eServices

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AK-001):  
  
AK-073):  
person

Approvals/Validations  
  
(1) [Cadet Promotion Approvals](#)  
(0 Transfers In & 11 Transfers Out)





# Select Apply for AEX

## AEX Awards Program

eServices

### About AEX

Home

[Overview](#)

### Modules

[Apply For AEX](#)  
[AEX Award Report](#)

**Welcome to the AEX Awards Program!**

Please select a Module from the left menu.

### Documentation

[Instructions](#)

\* Denotes Required  
fields



# Select the AEX book you want

**\*All AEX books are available in PDF under AE downloads & resources**



## About AEX

[Overview](#)

## Modules

[Apply For AEX](#)  
[AEX Award Report](#)

## Documentation

[Instructions](#)

\* Denotes Required Fields

[Home](#) > [Modules](#) > [Apply For AEX](#)

AEX program activities should take place from Oct. 1 - Sep. 30 of each year.

If the following information below is not accurate or complete, please update each field as necessary:

**CAPID**

605271

**Name**

1st Lt Lynda S. MacPherson

**Region-Wing-Unit**

PCR-AK-001

**\*School Year**

--Select--

**\*Address**

1830 Circlewood Dr

**\*City**

Anchorage

**\*State**

AK

**\*Zip**

99516199: Numbers Only

**\*Email**

lynda.macpherson@akwg.cap.g

**Select an option**

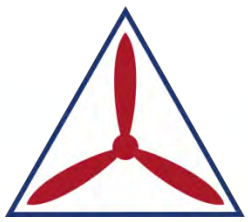
☒ Unit ☐ School/Organization

Select the AEX Activity Book that you would like one copy of:

Activity Book		Activity Book Description
<input type="checkbox"/>	AEX I - Volume 2	Kindergarten to Grade 5: A hands-on activity book to supplement AEX I that includes: A Comet for the Littlest Astronomers, Sound Waves and How They Travel, Parachutes, Candy and the Great Uncle Wiggly
<input type="checkbox"/>	AEX II - Volume 2	Grades 6-12: Fifteen hands-on, minds-on aerospace education activities for secondary educators that includes Scratch-Built Air Rocket, Building the International Space Station, Building the NASA Wind
<input type="checkbox"/>	AEX for Senior Members	Senior Members 21 and older: Seventeen hands-on aerospace education activities for older students and adults including building a hovercraft, flying a sectional chart and building a radio-controlled M

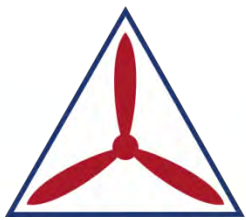
[Close All](#)

[Submit](#)




**I'M READY TO SUBMIT MY  
AEX REPORT, NOW WHAT?**





# Main Menu then Aerospace Education and then AEX

 Menu

Search Applications

Administration

Aerospace Education

**Applications**

ACE Registration

AE Downloads and Resources

AE POA and Activity Report

AEX


CAP STEM Kit

**Other Resources**

Request AE Materials

**Regulations**

R280-2 - Civil Air Patrol Aerospace Education Mission

 eServices

Approvals/Validations

[\(1\) Cadet Promotion Approvals](#)  
[\(0 Transfers In & 11 Transfers Out\)](#)

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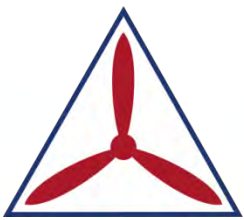
(PCR-001):

AK-001):

AK-073):

person





# Select AEX Award Report

## AEX Awards Program

eServices

### About AEX

Home

[Overview](#)

### Modules

[Apply For AEX](#)

[AEX Award Report](#)

**Welcome to the AEX Awards Program!**

Please select a Module from the left menu.

### Documentation

[Instructions](#)

\* Denotes Required  
fields



# Enter your information and click submit

## \*You may also opt to save your information each time you complete an activity

[About AEX](#)[Overview](#)[Modules](#)[Apply For AEX  
AEX Award Report](#)[Documentation](#)[Instructions](#)[Home](#) > [Modules](#) > [AEX Award Report](#)

This module allows you to submit your AEX Award Report to CAP AE for completion of the AEX program. All activities must be completed and the following report submitted so your program can be processed. After CAP AE has approved your Award Report you will then receive your requested number of certificates in the mail. If you used a curriculum other than one that CAP supplied for you, complete the form below and either mail, fax or email your curriculum materials to CAP AE for final approval. You can find the contact information in the Instructions page found in the navigation menu to the left of your screen. Please complete the form below.

AEX program activities should take place from Oct. 1 - Sep. 30 of each year.

**Upon submitting (not SAVE), please provide your Name Prefix and the Shipping Address of where you would like your certificates to be sent:**

**\*Name Prefix**

.Mr. Ms. Mrs. Dr. None

**\*School Year**

2018-2019 ▾

**\*Shipping Address (No P.O. Boxes)**

PO Box

**\*City**

Wash

**\*State**

AK ▾

**\*Zip**

99| Numbers Only

**\*Email**

lynda.m

**CAPID**

6

**Name**

1st Lt L

**Select an option**

.Unit. School/Organization

**School Or Organization**

PCR-AK-073 ▾

**Award Report Date**

24

**\*Phone**

Number

**Enter each Activity and each Activity's details:**

<b>ACTIVITY 1:</b> <b>*Title Of Activity</b> <input type="text"/>  <b>*Number Of Participants</b> <input type="checkbox"/> Numbers Only  <b>*Date Of Activity</b> <input type="text"/>	<b>ACTIVITY 2:</b> <b>*Title Of Activity</b> <input type="text"/>  <b>*Number Of Participants</b> <input type="checkbox"/> Numbers Only  <b>*Date Of Activity</b> <input type="text"/>	<b>ACTIVITY 3:</b> <b>*Title Of Activity</b> <input type="text"/>  <b>*Number Of Participants</b> <input type="checkbox"/> Numbers Only  <b>*Date Of Activity</b> <input type="text"/>
<b>ACTIVITY 4:</b> <b>*Title Of Activity</b> <input type="text"/>  <b>*Number Of Participants</b> <input type="checkbox"/> Numbers Only  <b>*Date Of Activity</b> <input type="text"/>	<b>ACTIVITY 5:</b> <b>*Title Of Activity</b> <input type="text"/>  <b>*Number Of Participants</b> <input type="checkbox"/> Numbers Only  <b>*Date Of Activity</b> <input type="text"/>	<b>ACTIVITY 6:</b> <b>*Title Of Activity</b> <input type="text"/>  <b>*Number Of Participants</b> <input type="checkbox"/> Numbers Only  <b>*Date Of Activity</b> <input type="text"/>

**TWO-HOUR AEROSPACE EDUCATION ACTIVITY:**

**\*Short Description Of Activity**

**\*Location**

**\*Number Of Participants**

☐ Numbers Only

**\*Date Of Activity**

**Due to budget constraints, wooden plaques are no longer available. We will still provide the squadron/class certificate and individual certificates for all participants upon completion of the AEX Program.**

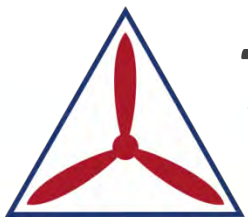
**TOTAL CERTIFICATES:**

**\*Provide the number of completion certificates needed:**

☐ Numbers Only

**Upon submitting (not SAVE), please provide your Name Prefix, Phone Number, and Shipping Address of where you would like your certificates to be sent:**

[Save](#) [Subr](#) [Clear](#)



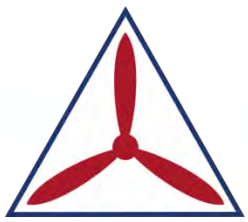
# *Teacher Orientation Program (TOP)*

## *Flights*



- ➔ 45-minute ride (2 teachers per flight)
- ➔ Front seat flight (2 take-offs/landings)
- ➔ Fly annually
  - ★ CAP Cessna airplane/glider
  - ★ Pre-flight Briefing
  - ★ Take photos
  - ★ Handle the controls
  - ★ Bring experience back to students





**I'M READY TO GO FLYING!**







To schedule your TOP flight in either a CAP glider or powered aircraft contact:

Lynda MacPherson

[Lynda.macpherson@akwg.cap.gov](mailto:Lynda.macpherson@akwg.cap.gov)

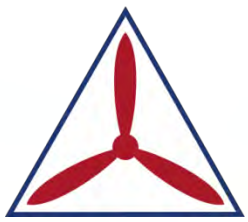
OR

907-240-7888

Follow us on Facebook for continuing STEM activities & ideas, upcoming events, and more

[www.Facebook.com/AlaskaAEM](https://www.Facebook.com/AlaskaAEM)





# What Else Can CAP Offer?

Class field trips to local squadrons  
AE/STEM classroom presentations

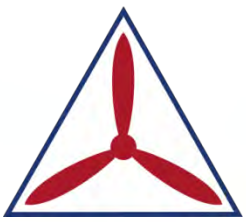
Pilot Visits

Teacher Workshops

AEM presentations to schools/groups

Cadet Squadron Within a School

We are here to assist you!



# Aerospace Education Membership

- ★ \$35 one-time membership fee; free annual renewal
- ★ PK-12 grade formal/informal educators eligible  
*(school educators, principals, home school parents, libraries, museums, youth organization leaders, etc.)*
- ★ Enjoy all of the **FREE** AEM benefits
  - ★ Free STEM kits
  - ★ Free Curriculum
  - ★ Free Annual TOP Flight
  - ★ FREE SHIPPING
  - ★ Free ACE & AEX programs
  - ★ FREE in-school workshops
- ★ **Why?**
  - ★ Help inspire youth toward STEM careers

# Alaska Civil Air Patrol

