CIVIL AIR PATROL

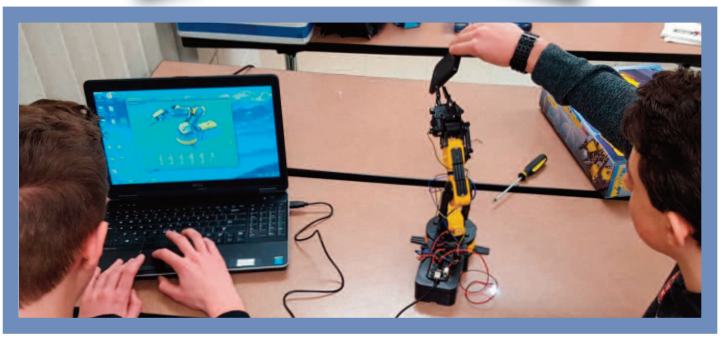
Aerospace Education

Teach

... ordinary subjects in extraordinary ways by becoming a special member of **Civil Air Patrol, the Auxiliary of the U.S. Air Force**- an Aerospace Education Member (AEM)! With help from AEMs, CAP is helping to develop the aerospace/STEM workforce of the future.







Engage

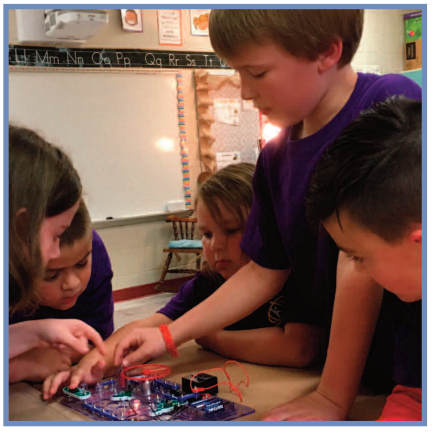
... youth in captivating lessons and activities using a variety of more than 40 national standards-based educational materials. Our free resources are available both online and in print to adapt to multiple teaching and learning styles. Additional online references provide an abundance of extra STEM resources.

Experience

...hands-on learning with free programs including

- **(Gr K-12) STEM Kits** in astronomy, robotics, flight simulation, coding, engineering, rocketry, quadcopters, and more
- **(Gr K-12) Aerospace Education Excellence (AEX)** six-lesson award program
- **(Gr K-6)** Aerospace Connections in Education **(ACE)** program: grade-specific program that enriches cross-curricular academics, physical fitness and character education
- $250 **grants**

Contact: **ae@capnhq.gov**







Fly

...on a free **Teacher Orientation Program (TOP) flight** in Civil Air Patrol aircraft at your local airport. Live stream, video, and/or photograph to bring your flying adventure back to your classroom!

Join

...TODAY as an AEM! CAP offers this special membership for formal and informal U.S. citizen educators in classrooms, home schools, museums or other youth organizations. A one-time $35 membership fee brings dozens of **FREE** products and programs. Read more at **gocivilairpatrol.com/ae.**

JOIN ONLINE
gocivilairpatrol.com/joinaem

Civil Air Patrol/Aerospace Education Member's

STEM Kit Program

gocivilairpatrol.com/stem-ed



Astronomy

Gaze into the skies to see planets and stars with this easy-to-use telescope



Bee-Bot

Use arrow keys on a floor robot and gridded mat to introduce programming to early learners



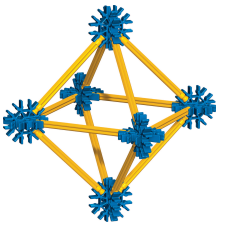
Flight Simulator

Practice flying with yoke, rudder pedals, flight simulation software and training booklet



Hydraulic Engineering

Build simple machines designed as a hands-on introduction to hydraulic engineering



Middle School Math

Explore 2-D and 3-D patterns to demonstrate geometrical shapes and models with this K'NEX kit



Quadcopter

Become an expert at flying an outdoor unmanned aerial vehicle (UAV)



Raspberry Pi

Introduce computer coding, embedded systems, and digital sensors



Ready-to-Fly Quadcopter

Develop experience flying UAVs with this small indoor quad



Remote-Controlled (RC) Aircraft

Build/fly balsa planes; control computer-based RC flights; fly actual RC model aircraft outdoors



Renewable Energy

Bring renewable energy to life by investigating solar, wind and water energy with this K'NEX kit



Robotics

Assemble and program the Robotic Arm and explore numerous paths



Rocketry

Ignite an interest in aerospace by building and launching rockets



Snaptricity

Investigate electricity, closed circuits, switches and more



Sphero

Explore programming with Sphero using a free app and your personal smart device



Weather Station

Record and study aspects of weather using the weather sensor and data collection kit