Civil Air Patrol/Aerospace Education Member's

STEM Kit Program

AVIATION	SPACE	CYBER

ANGLEGS

BUILD & LEARN GEOMETRY

CROSS COUNTRY NAVIGATION

FLIGHT SIMULATOR

OUTDOOR QUADCOPTER

INDOOR QUADCOPTER

REMOTE-CONTROLLED AIRCRAFT

BRIDGE BUILDING

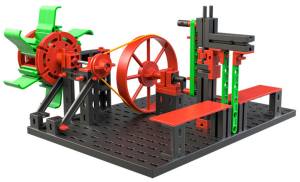
SNAPTRICITY

VTOL

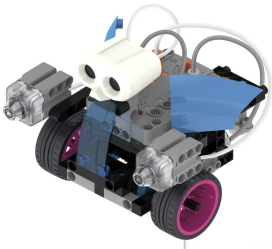
ASTRONOMY

HYDRAULIC ENGINEERING

MECHANICS



RENEWABLE ENERGY



ROBOTICS

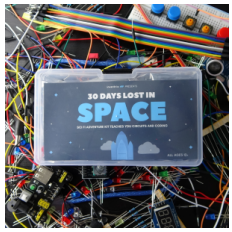
ROCKETRY

WEATHER STATION

BEE-BOT/ CODE & GO MOUSE

LET'S GO CODE!

RASPBERRY PI



30 DAYS LOST IN SPACE

SPHERO

30 DAYS LOST IN SPACE
Fix your crashed spaceship to make it home successfully by learning coding, programming and wiring skills

ANGLEGS
Build, identify, and classify 2-D figures using activity cards

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

BEE-BOT/CODE & GO MOUSE
Use arrow keys on a floor robot and gridded mat to introduce programming to early learners

BRIDGE BUILDING
Design structurally sound bridges while using problem solving to implement changes in the designs

BUILD & LEARN GEOMETRY
Create geometric shapes to solidify understanding of perimeter, area, and volume

CROSS COUNTRY NAVIGATION
Learn to use navigational tools

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

INDOOR QUADCOPTER
Develop experience flying UAVs with this small indoor quad

LET'S GO CODE!
Introduce young children to early coding and programming ideas without electronics

MECHANICS
Design and build complex concepts using cams & cranks

OUTDOOR QUADCOPTER
Increase your skills at flying an outdoor unmanned aerial vehicle (UAV)

RASPBERRY PI
Introduce computer coding, embedded systems, and digital sensors

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

RENEWABLE ENERGY
Bring renewable energy to life by investigation solar, wind, and water energy

ROBOTICS
Assemble and program robots with this complete robotics engineering system

ROCKETRY
Ignite and 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

VTOL
Maneuver taking-off and landing this aircraft vertically

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