

STEMPILOT[®]

STEMPilot offers your school aviation and drone curriculums to introduce students to careers in engineering, coding, aviation, and business.

Since 2005, STEMPilot has been creating flight simulators and educational materials for K12 schools. All our multimedia lesson plans are aligned to NGSS, CC and CSTA standards. Each unit begins with a video introducing the content, what we call *Visual Learning First Education*.

Students will learn the answer to one simple question, **Why is an airplane able to fly?** Creating and flying flight plans uses geometry, physics, trig, algebra, meteorology, geography, and topography. Teachers do not need any prior aviation experience, just the interest in engaging students with this approach to learning, not memorizing.

Our sims are used in science and physics classrooms, STEM Labs, engineering design classrooms, after-school flying clubs, and summer flying programs. We ask the kids to form flight crews of 3 students to promote Collaborative Learning. In a classroom of 30 students, 10 Simulators, one for each crew, works great. Our NGSS lesson plans are easy to follow and are delivered smart board ready on a flash drive.

Each Edustation or Pilot Pro include our tutored simulator learning missions for students to train at any time the sim is available. They will learn to fly through boxes in the sky to become proficient at flying a Cessna 172 aircraft and more. Our global flight package allows your students to fly from every airfield on the planet in one of 50 aircraft, including an F-22 Raptor. Simulator training sessions do not require a teacher. Each desktop has many learning aids including our animated cockpit training videos.



STEMPILOT[®] AFTER SCHOOL AVIATION LAB

Where Curiosity Takes Flight After the Bell[™]

Designed for afterschool programs and extended learning initiatives, the STEMPilot After School Aviation Lab delivers a high-impact, accelerated pathway to aviation education. Built for 1-2 hour sessions, this streamlined program gets students flying quickly through plug-and-play simulators, simplified lessons, and collaborative, mission-based learning that introduces foundational aviation, engineering, and STEM concepts in an exciting and approachable way.

With structured activities and ready-to-use technology, the program is easy to implement and scalable across schools or districts. No prior aviation experience is required, allowing educators to focus on facilitation and student engagement while delivering a fun, consistent, and meaningful afterschool aviation experience that supports STEM goals and career awareness.



Our Curriculum Units:

1. Engineering of an airplane
2. Instruments tell us what's going on
3. Learning to take off
4. How to fly straight and level
5. Forces of Flight
6. Math helps us land
7. Physics, What's that?
8. Famous Aviators
9. Meteorology / Weather
10. Navigation, Let's Get There!

Every Simulator order includes:

- Lesson plans with videos on a flash drive, smartboard ready
- Curriculum book & digital copy for students
- Foam Glider to demonstrate motion
- Unlimited tech support 8 AM-4 PM EST M-F
- Tutored Simulator Learning & Activity Missions
- FAA chart for NYC area Flight to the Statue of Liberty
- FAA chart for your home field location
- 1 Year warranty for any defect in manufacturing



SAFEDRONE®

Classroom Based Drone Curriculum



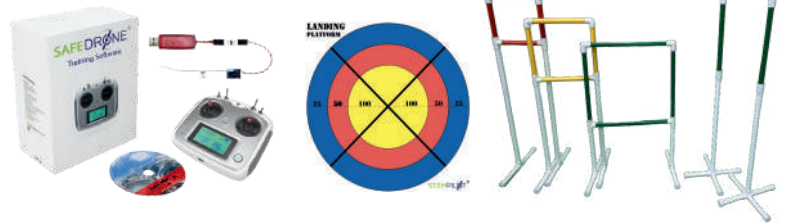
SAFEDRONE is our classroom curriculum for using drones SAFELY in education. Students will learn the theory of flight while they train on our drone simulator. Upon completing this training students get their Pilot License to fly and then repeat the training missions flying a guarded prop quadcopter indoors. Successful pilots can build an obstacle course with the included foam obstacles.

The SAFEDrone 5 Kit is sized for 20 students, in-flight crews of 4 and our SAFEDrone 10 kit is for 30 students in flight crews of 3 using.



Everything you need is included:

- 5-10 SAFEDrone PC Drone Simulator* with wireless controllers
- Bulls Eye Landing Targets
- 1- Curriculum book with NGSS lesson plans
- 5-10 Guarded Prop Quadcopters
- 20 - 36 pairs of safety glasses
- Spare batteries & charger
- 5 Foam Obstacles
- Complementary Part 107 guide



*Compatible with windows PC

PYTHON FLYER™

PYTHON CODING KITS FOR SCHOOLS



Python Flyer makes teaching Python approachable and engaging through programmable drone flight. With NGSS-aligned lessons, multimedia instruction, obstacles, landing targets, and safety glasses included, this all-in-one kit removes setup barriers so educators can focus on student learning.

- Detailed Lesson Plans with Multimedia Learning
- Python Codable Drone Kits with NGSS Curriculum
- Obstacles, Landing Targets & Safety Glasses
- Everything you need to start a Python coding program



FOR MORE INFORMATION VISIT

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