



## DISCOVER DRONES

### From STEM Connections to Career Pathways

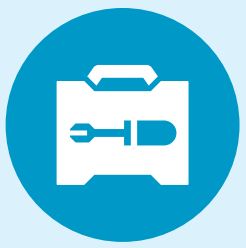
## DISCOVER DRONES

- The world's most successful modular drone program
- Students gain essential hands-on drone experience

From building their drone from the ground up to configuring their aerial robot with special software used by UAV professionals around the world, this program introduces students to the real-world applications of drones.

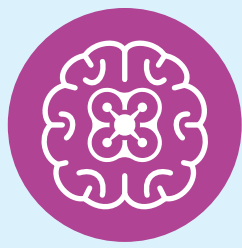
## ROADMAP TO THE SKIES

From unboxing your modular drone to logging flight hours, your *Discover Drones* journey is scaffolded like this:



### BUILD & CONFIGURE

RubiQ, the modular educational drone



### LEARN

the basics of UAV operations with Droneology



### TRAIN

Train on the flight simulator and build muscle memory



### FLY

outdoors with line-of-sight & first-person piloting



### UNDERSTAND

the STEM that makes it all possible

## LABCARD CURRICULUM

Time estimates are based on an average classroom.



### YELLOW

- Build RubiQ
- Start Droneology



### ORANGE

- Configure controller & LEDs
- Continue Droneology
- Begin Simulator Training



### PURPLE

- Configure Motors & Sensors
- Finish Droneology
- Continue Simulator Training
- Start Piloting RubiQ



### BLUE

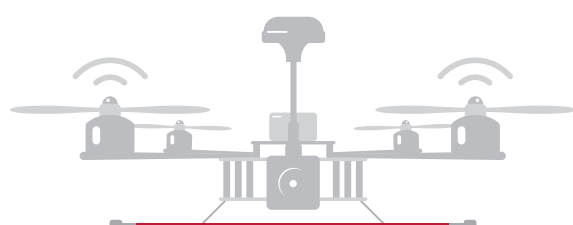
- Aeronautic Flight Experiments
- Continue Simulator Training
- Expand Piloting Skills

Each LABCard set includes one **End Design Project**. Use these as culminating assessments of student mastery of each LABCard color. If you're looking to extend your drone enrichment, check out the optional extensions found in the bound Instructor Manual. These **student-guided challenges** test piloting skills and **problem-solving abilities** through real-world scenarios, like:

**AIRLIFT:** Humanitarian organizations often use drones to deliver emergency medical and food supplies to areas where human workers can't go, such as war zones or places whose infrastructure has been destroyed by natural disasters. You've been hired by a disaster relief agency to deliver cargo to a community that's been struck by a massive hurricane, leaving many people stranded on the roofs of their flooded homes. It's up to you to design a way to deliver supplies!

## IMPLEMENTATION & PACING OPTIONS

*Discover Drones* can be modified to fit any educational environment. Depending on the time available or how deep you're looking to make your drone program, *Discover Drones* has a curriculum plan to fit everything from a quick introduction to a full semester.



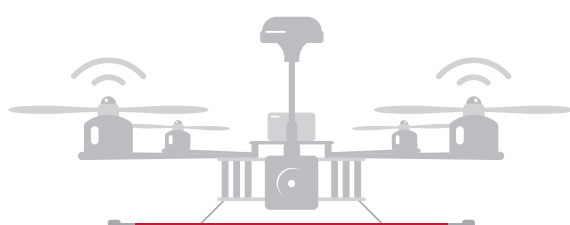
Total **25-30** hours



**90** min once a week



**18** weeks



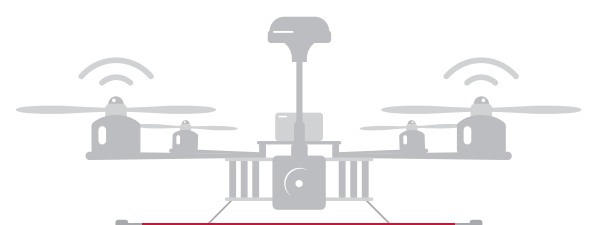
Total **50** hours



**3** hrs a day



**4** days



Total **100** hours



**1** hr a day Mon-Fri



**9** weeks

## FULL SEMESTER UAV COURSE WITH PART 107 TEST PREP



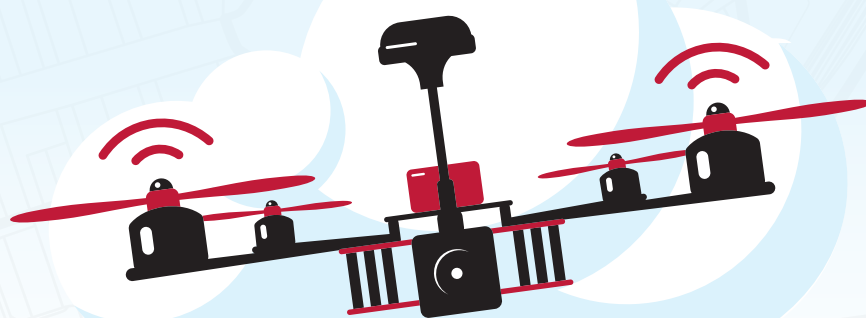
**1** hr a day Mon-Fri



**18** weeks

PCS Edventures partners with UAV Coach to offer prep courses for students looking to earn their **Remote Pilot Certification**. Students who are 16 and older can gain free access to the course and an opportunity to have their FAA test fees paid if they complete the High School STEM Scholarship for Aspiring Commercial Drone Pilots directly through UAV Coach.

Visit <https://edventures.com/products/drone-pilot-ground-school> for more information.



For more information go to:

[edventures.com/discover-drones](https://edventures.com/discover-drones) or call us at (800) 429-3110