



The Best Drone for STEM Education

	PCS Edventures RubiQ	OnPoynt STEM Ranger	MINDS-I MultiRotor	Parallax ELEV-8	DJI Phantom
DRONE					
Buildable	YES	YES (soldering required)	YES	YES	NO
FPV (First Person View) Camera	YES	Add-On	NO	NO	YES
Photo/Video Camera	In Development	NO	NO	Third Party Add-On	YES
Programmable	In Development	Add-On (Waypoint GPS-Based Mission Planning in iPad Ground Station app)	YES (Waypoint GPS-Based Mission Planning in ArduPilot software)	NO	YES (Waypoint GPS-Based Mission Planning in various apps)
Safety Features	<ul style="list-style-type: none"> • Programmable Failsafe • Return to Home • Position Hold • Trainer Radios 	<ul style="list-style-type: none"> • Programmable Failsafe • Return to Home • Position Hold • Prop Guard, • Altitude and Distance Limiters 	<ul style="list-style-type: none"> • Prop Guards 	<ul style="list-style-type: none"> • Programmable Failsafe 	<ul style="list-style-type: none"> • Return to Home • Position Hold • Obstacle Avoidance • Prop Guards
CURRICULUM PACKAGE	Discover Drones	STEM Ranger Education Kit	"UAV Drones Lab (prerequisite: STEM Robotics Foundations)	ELEV-8 Tutorials	Advanced Aerial Education sUAS Curriculum
Age Range	MS, HS	HS	HS	HS, College	HS, College
Materials Included	<ul style="list-style-type: none"> • Drones • All Assembly Tools • Spare Parts • Radio Controllers • FPV Goggles • Batteries & Chargers • Flight Simulator Software & Controllers • Reusable Storage • Safety Equipment 	<ul style="list-style-type: none"> • Drones • Assembly Tools • Radio Controllers • Batteries & Chargers • Storage • Safety Equipment 	<ul style="list-style-type: none"> • Drones • Assembly Tools • Spare Parts • Radio Controllers • Batteries & Chargers • Flight Simulator Software • Storage • Safety Equipment 	<ul style="list-style-type: none"> • Drones • Spare Parts • Radio Controllers • Batteries & Chargers • Safety Equipment 	<ul style="list-style-type: none"> • Curriculum only
Curriculum Hours	16 LABCards / 45-hour curriculum with extension options for up to 90 hours	16 lessons	8 Units / 45-hour curriculum with add-on bundles for up to 90 hours	Open-ended	45 hr
Curriculum Included	<ul style="list-style-type: none"> • Instructor Manual • Student Handouts • Droneology: online series of videos and quizzes • Technical Guides • Print and Digital LMS Options Available 	<ul style="list-style-type: none"> • Instructor Manual • Student Handouts • Slide Presentations • Technical Guides 	<ul style="list-style-type: none"> • Instructor Manual • Student Handouts • Slide Presentations • Technical Guides 	Online Tutorials	Digital LMS Student Handouts
Professional Development Resources	<ul style="list-style-type: none"> • In-Person Training • Live Webinar Training • Digital Library of Support Content • Unlimited Phone Support 	<ul style="list-style-type: none"> • In-Person Training • Digital Library of Support Content • 2-Hours Phone Support 	<ul style="list-style-type: none"> • In-Person Training 	<ul style="list-style-type: none"> • Digital Library of Support Content • Online Forum 	2-Week Intensive In-Person Training
Curriculum Topics	<ul style="list-style-type: none"> • Drone Operations • Real-World UAV Applications • Integration of STEM Concepts: <ul style="list-style-type: none"> • Computing Systems • Data Transmission • Electrochemistry • Energy Transfer • Materials Science • Physics of Flight • Systems Thinking Preparation for Industry Certification (FAA Remote Pilot License) Available 	<ul style="list-style-type: none"> • Drone Operations • Real-World UAV Applications • Integration of STEM Concepts: <ul style="list-style-type: none"> • Data Transmission • Physics of Flight 	<ul style="list-style-type: none"> • Drone Operations • Real-World UAV Applications • Integration of STEM Concepts: <ul style="list-style-type: none"> • Coding • Data Transmission • Electrochemistry • Energy Transfer • Physics of Flight • Systems Thinking 	<ul style="list-style-type: none"> • Drone Operations • Integration of STEM Concepts: <ul style="list-style-type: none"> • Physics of Flight 	<ul style="list-style-type: none"> • Drone Operations • Real-World UAV Applications • Integration of STEM Concepts: <ul style="list-style-type: none"> • Data Transmission • Engineering Design • Physics of Flight Preparation for Industry Certification (FAA Remote Pilot License)
Price	\$3295 for 2-drone base package Larger and smaller packages available	\$1895 for 2-drone kit Larger and smaller packages available	Request a quote	\$1498 for 2 drone kits Larger and smaller packages available	Request a quote for curriculum pricing, additional \$4600 budget for 2 drones recommended