

education



A place where you can take learning to new heights.

Inspire your students to imagine the limitless possibilities in aerospace with our line of model rocketry education products.

Real world, hands on learning happens with Estes Education.

"Model Rocketry is an excellent STEM activity that gets students out of the classroom and into the sky! Students use all the elements of STEM to collect, analyze and communicate data. I've been teaching rocketry for over 6 years and it's the best activity every year! "

- KB

Choose Estes Lesson Plans to Engage Your Students in STEM

- Develop 21st century skills with your students through lesson plans that promote collaborative thinking and leadership.
- Gain confidence in effectively teaching STEM to promote real world learning in the classroom.
- Create lifelong memories in your classroom with hands on learning that inspire and ignite creativity. Aerospace careers start with Estes.

Our FREE Lesson Plans Include

- Remote and in classroom options
- Claims Evidence -Reasoning Assessments
- NGSS standards
- All 4 STEM elements
- 21st Century skills
- Support resources



Download Lesson Plans at: EstesRockets.com/edu/b2s/lesson-plans/

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How to Choose the Right Experience for Your Students

Age

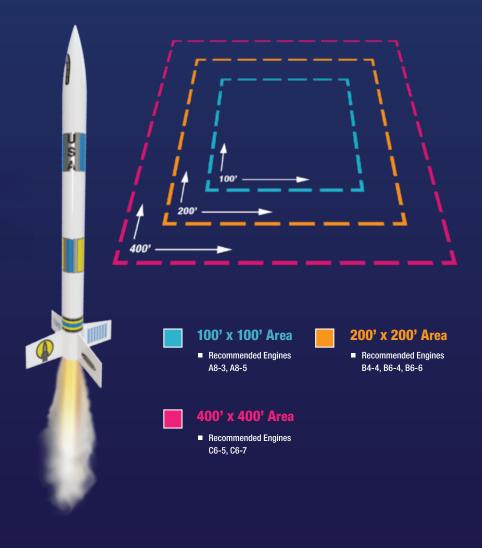
Younger students (Grades 5-8) need beginner rockets that are simple to assemble. They're not quite ready for the challenge of gluing on individual fins yet, so choose one of our beginner bulk packs. Grades 9-12 are ready for the intermediate rockets!

Time

Consider the amount of time needed to build a rocket, for glue to dry and how long it will take to prep the rockets before launch. Our snap together rockets are ready to fly in minutes! Our intermediate rockets require a longer glue dying time.

Flying Field Size

Recovery method (parachute or streamer), engine size and wind all play a role in what rocket is best suited for the size field you may have. Use the chart below to help you determine what engine will work best!





TIPS!

- 1. **Prepare.** Build a rocket and launch it ahead of time! It's helpful to have that experience before you launch with your students.
- 2. **Organize.** Get your supplies together and encourage students to keep track of all their rocket parts. Sometimes, there can be many pieces and organization is key!
- 3. **Be Flexible.** Sometimes lessons don't go according to plan. Have backup activities ready in case things change.
- 4. **Connect.** STEM and rocketry go hand in hand. Use every opportunity to connect rockets to the science or math concepts you are teaching.
- 5. **Encourage.** The more excited you are, the more your students will be. Launching rockets is fun and creates memories your students will carry with them forever.

NEW PRODUCTS



1721 Star Hopper[™] Bulk Pack

- No glue or building supplies required!
- Ready to fly in minutes, perfect for teachers on a tight schedule!
- Great for younger students

Length: 7.4 in. (18.8 cm) Diameter: 0.74 in. (19 mm) Recovery: 18 in. (40.7 cm) Streamer Projected Altitude: 400 ft. (122 m) Recommended Engines: 1/2A3-4T, A3-4T, A10-3T

Pack of 12 MSRP - \$129.99

2226 Mini AltiTrak[™]

- The mini AltiTrak provides a technology solution for students to track, graph and analyze data.
- Their small size makes them easy to transport and share amongst students.
- This low-cost solution provides three in pack so you can easily budget for this.

Pack of 3 MSRP - **\$**9.99

> How High Did My Rocket Go?

EDUCATOR BULK PACKS



Quick Snap – No Gluing!

1721 Star Hopper[™] Bulk Pack

Length: 7.4 in. (18.8 cm) Diameter: 0.74 in. (19 mm) Projected Altitude: 400 ft. (122 m) Recommended Engines: 1/2A3-4T, A3-4T, A10-3T

Pack of 12 MSRP - \$129.99





PLASTIC SNAP IN FINS!



ONE-PIECE MOLDED FIN UNIT

1749 Gnome[™] Bulk Pack

Length: 10.3 in. (26.2 cm) Diameter: 0.54 in. (14 mm) Recommended Engines: 1/2A3-2T, 1/4A3-3T, 1/2A3-4T, A10-3T

Pack of 12 MSRP - \$69.99





Quick Snap – No Gluing!

1794 Firestreak SST[™] Bulk Pack

Length: 10.2 in. (25.9 cm) Diameter: 0.86 in. (22 mm) Recommended Engines: 1/2A3-2T, 1/2A3-4T, A10-3T

Pack of 12 MSRP - \$104.99



PLASTIC SNAP IN FINS!

Easiest To Build





1764 Generic E2X[®] Bulk Pack

Length: 13.5 in. (34.3 cm) Diameter: 0.98 in. (25 mm) Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-6, C6-5, C6-7

Pack of 12 MSRP - \$114.99





ONE-PIECE MOLDED FIN UNIT





1751 Alpha III[®] Bulk Pack

Length: 12.3 in. (31.2 cm) Diameter: 0.98 in. (25 mm) Recommended Engines: 1/2A6-2, A8-43, A8-5, B4-4, B6-6, C6-5, C6-7

Pack of 12 MSRP - \$129.99



ONE-PIECE MOLDED FIN UNIT

EDUCATOR BULK PACKS



1753 AVG Bulk Pack Assorted Rockets Including: 4 Alpha[®], 4 Viking[™], 4 Generic E2X[®]

Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-6, C6-5, C6-7

Pack of 12 MSRP - \$89.99







INDIVIDUAL FINS THAT GLUE ONTO THE BODY TUBE

1754 Wizard[™] Bulk Pack

Length: 12 in. (30.5 cm) Diameter: 0.74 in. (19 mm) Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7 w/Engine adapter (Sold Seperately) A10-3T

Pack of 12 MSRP - \$79.99





1755 Viking[™] Bulk Pack

Length: 12.1 in. (30.7 cm) Diameter: 0.74 in. (19 mm) Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7 w/Engine adapter (Sold Seperately) A10-3T

Pack of 12 MSRP - \$84.99



INDIVIDUAL FINS THAT GLUE ONTO THE BODY TUBE

More Challenging to Build



1756 Alpha[®] Bulk Pack

Length: 12.3 in. (31.2 cm) Diameter: 0.98 in. (25 mm) Recommended Engines: 1/2A6-2, A8-3, A8-5, B4-4, B6-4, B6-6, C6-5, C6-7

Pack of 12 MSRP - \$129.99



THAT GLUE ONTO THE BODY TUBE





1706 Orbis 3D[™] Bulk Pack

This kit comes with body tubes, parachutes and parts you need to build an engine mount. Download .stl files from the Estes website to print your 3D plastic parts to complete your rocket. Nine different design options.

3D printer and filament NOT included

Length: 10 - 12 In. (25.4 - 30.5 cm) Recovery: 9 in. (22.9 cm) Parachute Projected Altitude: 400 ft. (122 m) Recommended Engines: A8-3, B4-4, B6-4, C6-5 Non-flying model.

MSRP - \$59.99

1718 Green Eggs[™] Bulk Pack

An egg lofting rocket designed for the unique needs of teachers. Uses our "mighty" C11 rocket engines to safety lift the extra weight of an egg and keep it well within an average school yard for safe recovery.

Length: 23.6 in. (59.9 cm) Diameter: 1.8 in. (46 mm) Recommended Engines: w/egg: C11-3, D12-3 w/out egg: C11-5, D12-5

Pack of 12 MSRP - \$199.99





INDIVIDUAL FINS THAT GLUE ONTO THE BODY TUBE



Students 3D print these parts!

ENGINE BULK PACKS

Every launch requires engines, recovery wadding, starters, and plugs. These convenient engine bulk packs include enough of each for multiple launches. Choose from a variety of engine sizes. We advise using the smallest recommended engines for the first launches.

1781	A8-3 Engines (24); 30 starters; 24 plugs; 72 sheets wadding MSRP - \$71.99
1783	B6-4 Engines (24); 30 starters; 24 plugs; 72 sheets wadding MSRP - \$72.99
1784	B6-0 & B6-6 Engines (12 each); 30 starters; 24 plugs; 72 sheets wadding
1788	1/2A3-4T Engines (24); 30 starters; 24 plus wadding MSRP - \$57.79
1789	C6-5 Engines (24); 30 starters; 24 plugs; 72 sheets waddingMSRP - \$84.99
1726	C11-3 Engines (12); 20 starters; 16 plugs; 144 sheets waddingMSRP - \$47.99
1672	Blast-Off [®] Flight Pack A8-3, B6-4, C6-3, C6-5 engines (6 each); 30 starters; 28 plugs; 72 sheets wadding



Pictured above: 1672 Blast-Off® Flight Pack

ACCESSORIES

2310 Lifetime Launch System

Kids are TOUGH. That's why we recommend our lifetime launch system for educators and youth leaders. It is so tough we guarantee it will last a lifetime. Designed for kid use, it will help you create a memorable launch day experience for your students.

- Stands 18 inches off-the-ground -Allows students to easily see the micro clips.
- 2 Tiltable launch rods -Aim rocket upwind to help it recover in-bounds.
- Pro Series II Launch Controller -Uses bigger batteries for more launches.



MSRP - \$79.99

The Lifetime Launch System comes with a lifetime warranty available to read at: www.estesrockets.com/lifetime-launch-system-warranty

1207 Phantom[™]

- The Phantom[™] is a STEM education tool and is used in classrooms nationwide!
- It is a great see-through visual aid when demonstrating the various parts of a model rocket to your students!

Includes fully colorcoded cutaway for engine component identification.

Length: 12.1 in. (30.7 cm) Diameter: 0.98 in. (25 mm) Recovery: 9 in. (22.9 cm) Parachute Recommended Engines: Included cutaway engine only. Non-flying model.

MSRP - \$14.99

MAN EXPLORES THE UNIVERSE AROUND HIM AND CALLS THE ADVENTURE SCIENCE.

- EDWIN POWELL HUBBLE



Promote Engineering Thinking & Design

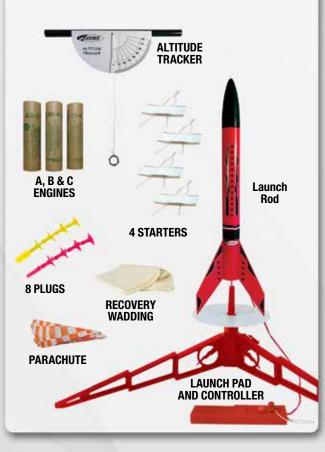
Chosen for the 2019 Purdue University Engineering Gift Guide. Build the rocket and launch it with one of three included engines. Observe as a reaction occurs to make the rocket soar! Launch again with a different size engine and measure the difference in altitude with the included altitude tracker.

5302 Rocket Science Starter Set

Length: 12.6 in. (32 cm) Recovery: 12 in. (30.5 cm) Parachute Projected Altitude: 1100 ft. (335 m) Recommended Engines: 1/2A6-2, A8-3, B4-4, B6-4, B6-6, C6-5, C6-7 MSRP - \$39.99

Starter Set Includes:

- 1 Rocket
- 1 Porta-Pad® II Launch Pad
- 1 Electron Beam® Launch Controller
- 1 12 in. (30.5 cm) Parachute
- 1 each A8-3, B6-4, C6-5 Model Rocket Engine
- 4 Starters
- 8 Plugs
- 12 Sheets of Recovery Wadding
- 1 Altitude Tracker



National Association of Rocketry MODEL ROCKET SAFETY CODE (Basic Version, Eff. August 2012)



1. Materials. I will use only lightweight, non-metal parts for the nose, body, and fins of my rocket.

2. Motors. I will use only certified, commercially-made model rocket motors, and will not tamper with these motors or use them for any purposes except those recommended by the manufacturer.

3. Ignition System. I will launch my rockets with an electrical launch system and electrical motor igniters. My launch system will have a safety interlock in series with the launch switch, and will use a launch switch that returns to the "off" position when released.

4. Misfires. If my rocket does not launch when I press the button of my electrical launch system, I will remove the launcher's safety interlock or disconnect its battery, and will wait 60 seconds after the last launch attempt before allowing anyone to approach the rocket.

5. Launch Safety. I will use a countdown before launch, and will ensure that everyone is paying attention and is a safe distance of at least 15 feet away when I launch rockets with D motors or smaller, and 30 feet when I launch larger rockets. If I am uncertain about the safety or stability of an untested rocket, I will check the stability before flight and will fly it only after warning spectators and clearing them away to a safe distance. When conducting a simultaneous launch of more than ten rockets I will observe a safe distance of 1.5 times the maximum expected altitude of any launched rocket.

6. Launcher. I will launch my rocket from a launch rod, tower, or rail that is pointed to within 30 degrees of the vertical to ensure that the rocket flies nearly straight up, and I will use a blast deflector to prevent the motor's exhaust from hitting the ground. To prevent accidental eye injury, I will place launchers so that the end of the launch rod is above eye level or will cap the end of the rod when it is not in use.

7. Size. My model rocket will not weigh more than 1500 grams (53 ounces) at liftoff and will not contain more than 125 grams (4.4 ounces) of propellant or 320 N-sec (71.9 pound-seconds) of total impulse.

8. Flight Safety. I will not launch my rocket at targets, into clouds, or near airplanes, and will not put any flammable or explosive payload in my rocket.
9. Launch Site. I will launch my rocket outdoors, in an open area at least as large as shown in the accompanying table, and in safe weather conditions with wind speeds no greater than 20 miles per hour. I will ensure that there is no dry grass close to the launch pad, and that the launch site does not present risk of grass fires.

Installed Total	Equivalent Motor	Minimum Site
Impulse (N-sec)	Туре	Dimensions (ft.)
0.00-1.25	1/4A, 1/2A	50
1.26-2.50	А	100
2.51-5.00	В	200
5.01-10.00	С	400
10.01-20.00	D	500
20.01-40.00	E	1000
40.01-80.00	F	1000
80.01-160.00	G	1000
160.01-320.00	Two Gs	1500

LAUNCH SITE DIMENSIONS

10. Recovery System. I will use a recovery system such as a streamer or parachute in my rocket so that it returns safely and undamaged and can be flown again, and I will use only flame-resistant or fireproof recovery system wadding in my rocket.

11. Recovery Safety. I will not attempt to recover my rocket from power lines, tall trees, or other dangerous places. www.nar.org



Estes is a proud Sponsor of The American Rocketry Challenge

The American Rocketry Challenge (TARC) is the world's largest rocket contest with nearly 5,000 students nationwide competing each year. The contest gives middle and high school students the opportunity to design, build and launch model rockets and hands-on experience solving engineering problems.

Get Involved!

Here you'll find respected groups and institutions who support the development of young people. Like Estes[®], many of these organizations provide their own unique learning opportunities for students, youth leaders and teaching professionals. Together, we strive to create an environment rich with resources to keep your students interested, inquisitive and inspired. Please take a moment to visit their sites today.



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Accessories

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2206 NASA SLS	60	7253 Explorer Aquarius	48	7291 Space Corps Centurion
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