

ORIGINAL IDEAS FROM
KELVIN
 EDUCATIONAL
**SUPER
 CAPACITOR
 PLANE**



30
 Inch Wing Span



Explore New Technology! On-Board Capacitor is the Power Source—Save on Batteries! Amaze Your Students!

The latest technology—power your model dragster, plane or hovercraft using super capacitors! Students will be able to explore and learn about this new technology that could be used in future vehicles to store energy.

And the models you build can be used over and over again. Use a regular or rechargeable battery to charge the super capacitor model for about 20 seconds. Turn on the switch and off it goes!

KELVIN® Super Capacitor Airplane

Students design and build the Styrofoam plane, charge the capacitor, engage the magnet activated switch and launch. The wings can be trimmed to affect the flight. Magnet activated switch disengages, if the plane should crash, turning off the motor. Kit includes foam that students cut and shape, motor, super-capacitor, propeller, magnet, reed switch, wire and instructions.

- 841800 Individual Plane Kit\$15.95 or \$14.95 ea./10+
- 841801 Plane Class Bulk Pack (10 planes)\$135

Super Capacitors

- 140054 10 Farad Super Capacitor\$5.95 or \$5.45 ea./10+
- 140055 20 Farad Super Capacitor\$7.95 or \$7.45 ea./10+

Find More **SUPER CAPACITOR VEHICLES**
 in CARS in the CARS chapter on pgs. **TC16-17**



Traditional Kite Class Pack

Students design their own kites and then build them using colorful tissue paper. This kit includes tissue paper, 36" long basswood strips, [20] glue bottles, [20] rolls of string and basic guide sheets. Enough kite materials for 20 students.

281707 Bulk Pack for 20\$79.95

Kite Parts Bulk Pack

A variety of parts for student kites.
 841426 Bulk Pack for 30 Students ..\$99

Bulk Pack Prices As Low As **\$3³⁰** Per Each Student Kit



Create A Kite Kit

Create your own colorful decoration on this plain white kite with long streamers. Easy to fly. 20" tyvek.

283501\$4.95 or \$4.75 ea./10+ or \$3.95 ea./25+

Skyjool Kite

Ideal for middle elementary science, the Skyjool offers a more complex design that rewards students with higher performance. With exclusive thin, rip resistant kite sails and hardwood sticks, students will enjoy making this high flying "Eddy Kite". Also includes a teacher's manual and instructions for eight students.

281960 Bulk Pack of 8 Kits\$29.95



Geodesic Balloons: A Twist on Hot Air Balloons!

As Low As
\$3.30
 Per Student

KELVIN® Geodesic Hot Air Balloon Challenge

A new twist on hot air balloons. Give your students a lesson in geometry and measurement while they build hot air balloons based on geodesic domes. The Geodesic Hot Air Balloon Challenge includes plans and instructions for several different models ranging from fourteen inches to over five feet tall, all from standard size tissue paper.

The bigger the balloon, the better it flies (providing a good lesson on surface area and volume)! Flat panels made up of pentagons and hexagons are easy to assemble and repair. These balloons can be launched with an electric hot plate (great for flying in a gymnasium), or sterno solid fuel (outdoor use only). The thoroughly illustrated instruction manual includes information on the history of hot air balloons, plus tips to make construction easy.

The Geodesic Hot Air Balloon Challenge Package includes: Launcher, Hot Plate and balloon Starter Pack with metal wire, tissue paper in assorted colors and glue. The challenge requires four gel heat cartridges for outdoor use (see below). Appropriate for grades 6 through 12.

841638 Geodesic Hot Air Balloon Challenge Package **\$245**

Consumables

Packs and single kits include: colored tissue paper, metal wire, and glue.

841639 Balloon Class Pack (For 15 Small, 10 Medium & 5 Large Balloons) **\$99**

As low as \$3.30 per student!

841651 Single Small Balloon Kit **\$3.95** or **\$3.65** ea./10+

841652 Single Medium Balloon Kit **\$5.95** or **\$5.45** ea./10+

841653 Single Large Balloon Kit **\$8.95** or **\$8.45** ea./10+

Sterno Gel Heat Cartridge

Each sterno cartridge burns for approximately 4 hours. **★ Can only be shipped by UPS Ground withing the Continental United States.**

851316 8 oz. **★** **99¢** or **89¢** ea./12+ or **79¢** ea./72+



Tissue Paper

20 x 30 in. 24 sheets per pkg.



STOCK #	COLOR	\$ EA.
420519	White	4.95
420520	Sky Blue	4.95
420521	Canary Yellow	4.95
420522	Red	4.95
420523	Black	4.95
420524	Green	4.95
420525	Brown	4.95

Tissue Paper Pack

Assorted Colors. 20 x 30 in.

420399 50 Sheets **\$19.95**

Give Your Students a "Hands-On" Flying Experience!



Flight Sim Yoke USB

King of flight simulator controls! One-of-a-kind yoke offers realistic flying. Features comfortably placed prop, throttle and mixture levers. Closest thing you'll get to sitting in your own cockpit!

121454 USB, Win 98 sp2 -XP\$144.95



Pro Pedals For Yoke USB

Both the differential toe brake support and a gas/break function let these pedals take you from the airfield right down to the racetrack. For use with the Flight Sim Yoke.

121455 Win 98 sp2 -XP, USB\$148.95



Pro Throttle USB

Flight Simulation just became more real Pro Throttle USB will deliver stomach-dropping excitement at maximum velocity to flight-sim enthusiasts. A "must have" for serious pilots.

283418\$149.95



Fighterstick USB

Authentically modeled after the USAF F-16's control column and featuring more than 132 programmable functions, this controller is intended for the advanced arm-chair pilot demanding superior firepower.

283417\$169.95



Virtual Flight Lab

Computer with a 17" LCD Display and Pre-Loaded Virtual Flight Simulator Software, Virtual Pilot Pro™ Yoke, Pedals and Glider Kit. IBM, USB.

841698 (see above).....\$1,350

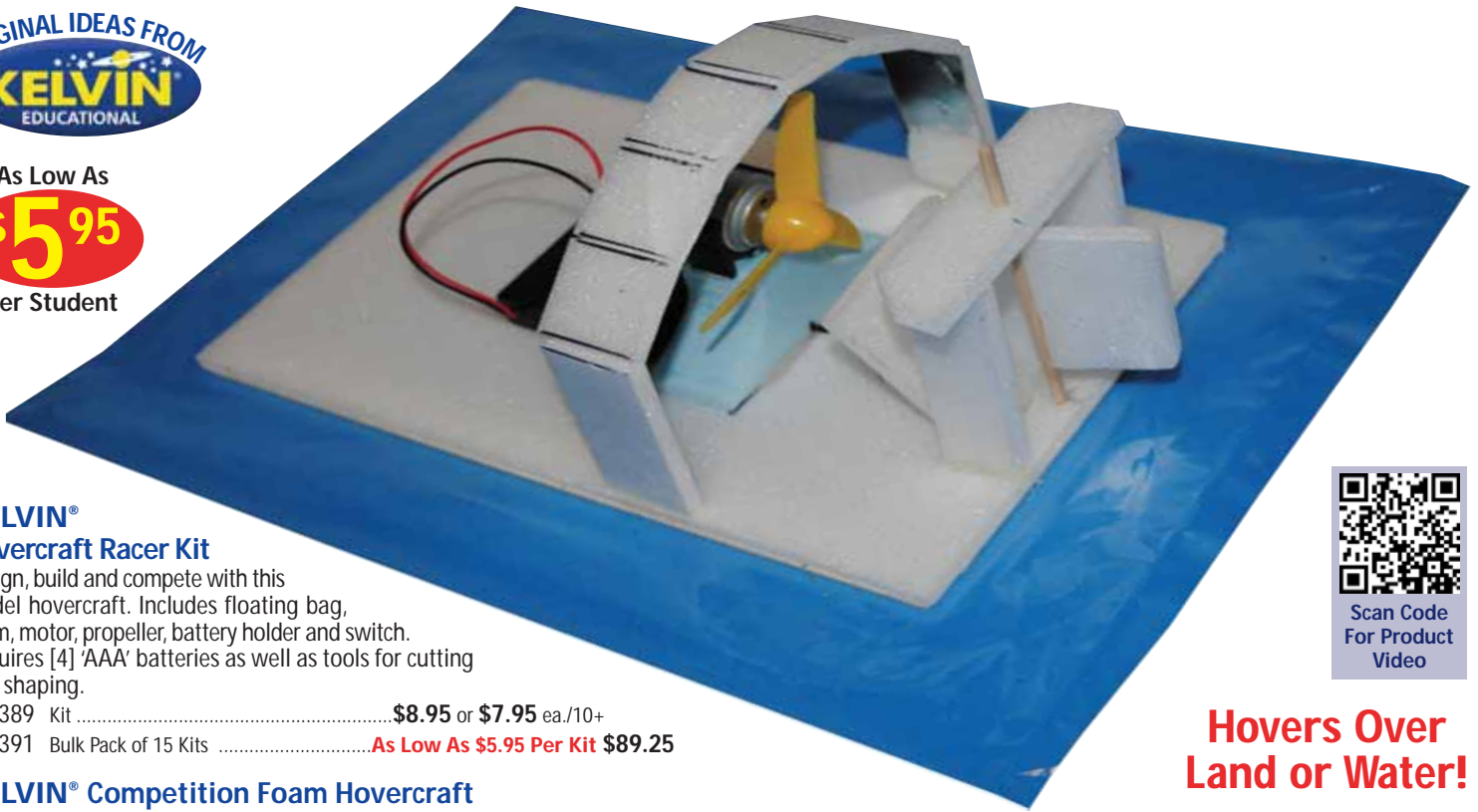




As Low As

\$5.95

Per Student



KELVIN® Hovercraft Racer Kit

Design, build and compete with this model hovercraft. Includes floating bag, foam, motor, propeller, battery holder and switch. Requires [4] 'AAA' batteries as well as tools for cutting and shaping.

- 842389 Kit **\$8.95** or **\$7.95** ea./10+
- 842391 Bulk Pack of 15 Kits **As Low As \$5.95 Per Kit \$89.25**



Scan Code For Product Video

Hovers Over Land or Water!
Wired Remote Control!

KELVIN® Competition Foam Hovercraft

KELVIN®'s updated model of the Hovercraft has the ability of hovering over land and water. This innovative hovercraft is designed with an external power source that allows the hovercraft to run 50% faster for a longer time. Now you can design a hovercraft that not only lifts and travels from one point of the room to another but can also float in a pool and glide across tile. Both the **Basic** and **Competition 2009 Hovercraft Design Challenges™** are great construction projects that demonstrate lift.

This kit includes: two types of motors, foam trays, two propellers (one for lift and one for propulsion forward), 9V battery snap, slide switch, wire, dowel rods, craft sticks and clips. Also optional, not included, wired remote battery pack with On/Off switch and 10ft wire. These kits require designing, soldering, assembly and evaluation skills. Requires 9V battery or remote battery pack (see below). Recommended for Grades 6 & up.

- 841109 Kit..... **\$8.95** or **\$8.75** ea./10+ or **\$8.45** ea./25+
- 120973 Hovercraft How To Video **\$29.95**
- 841420 Bulk Pack for 20 Students **As Low As \$6.75 Per Kit \$135**

As Low As
\$6.75
Per Student



KELVIN® Lift-Push Foam Hovercraft

This kit includes: foam tray, propeller, motor, 9V battery snap, wire, straw, mini slide switch, craft sticks and clips. Requires 9V battery.

- 841108 Kit. **\$5.95** or **\$5.45** ea./10+
- 842262 Bulk Pack for 25 .. **\$99.95**

As low as \$3.99 per student!



Wired Power Adapter

For [4] 'AA' Batteries (not included).

- 851510 **\$9.95** or **\$8.95** ea./10+

1-hr. Quick Charger

- [4] 'AA' Rechargeable Ni-MH Batteries (included)
- 220155 **\$29.95**

As Low As
\$9.90
Per Student



KELVIN® Super Capacitor Hovercraft

Simple, but effective this super-capacitor hovercraft will float above a smooth surface. This kit includes a foam base, plastic, propeller, motor, super-capacitor, reed switch, magnet, wire and instructions.

- 841804 Individual Hovercraft Kit\$11.95 or \$10.95 ea./10+
- 841805 Hovercraft Class Bulk Pack (10 hovercrafts)\$99

As low as \$9.90 per student!

Super Capacitors

- 140054 10 Farad Super Capacitor\$5.95 or \$5.45 ea./10+
- 140055 20 Farad Super Capacitor\$7.95 or \$7.45 ea./10+

SUPER CAPACITOR CAR



As Low As
\$9.90
Per Student

KELVIN® Super 20F Racer™ 9V

New from KELVIN®. Design a dragster vehicle with a 20F super capacitor that can be recharged multiple times using a 9V battery snap connector.

Measures 12 in. long. Comes with a 20F super capacitor and perforated cardstock cover that can be designed as you wish or taken off and use just the platform. Racing Track for two lanes available below. Soldering, shaping and assembly required.

- 841802 Super Racer™ 9V Kit with [1] 20F Super Capacitor\$9.75 or \$8.95 ea./10+
- 841803 Super Racer™ 9V Bulk Pack for 10\$84.95

SUPER CAPACITOR HOVERCRAFT

Explore New Technology! On-Board Capacitor is the Power Source—Save on Batteries! Amaze Your Students!

The latest technology—power your model dragster, plane or hovercraft using super capacitors! Students will be able to explore and learn about this new technology that could be used in future vehicles to store energy.

And the models you build can be used over and over again. Use a regular or rechargeable battery to charge the super capacitor model for about 20 seconds. Turn on the switch and off it goes!

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in **CARS** in the **CARS** chapter on pgs. **TC16-17**

SUPER CAPACITOR PLANE

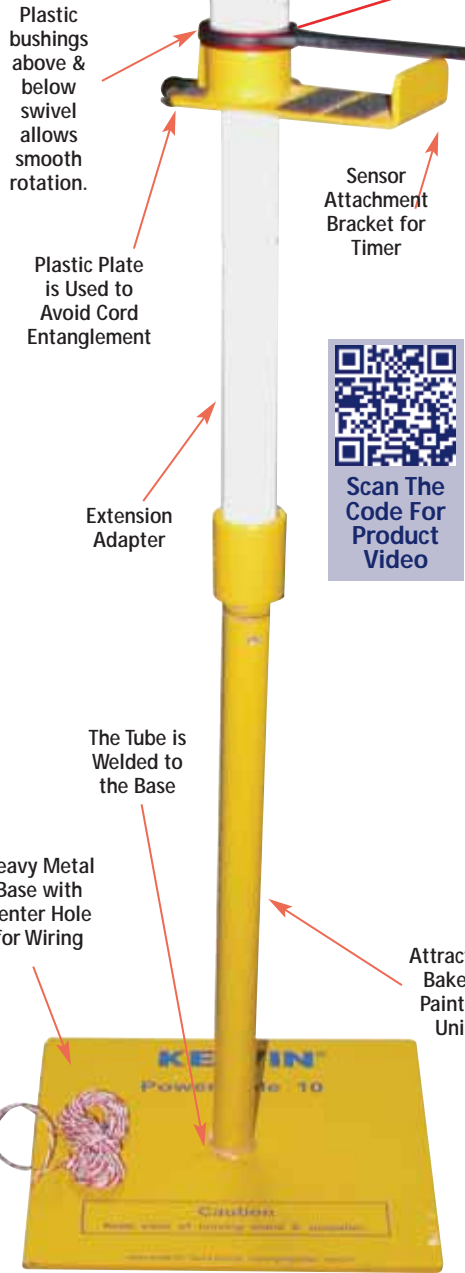
30
Inch Wing Span



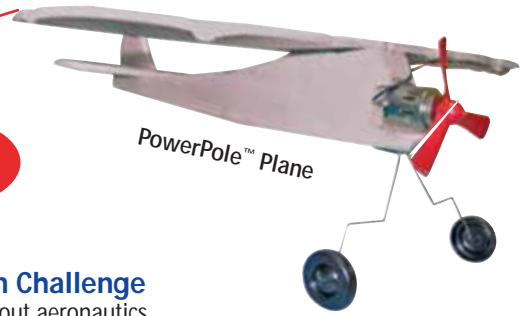
KELVIN® Super Capacitor Airplane

Students design and build the Styrofoam plane, charge the capacitor, engage the magnet activated switch and launch. The wings can be trimmed to affect the flight. Magnet activated switch disengages, if the plane should crash, turning off the motor. Kit includes foam that students cut and shape, motor, super-capacitor, propeller, magnet, reed switch, wire and instructions.

- 841800 Individual Plane Kit\$15.95 or \$14.95 ea./10+
- 841801 Plane Class Bulk Pack (10 planes)\$135



As Low As
\$8.49
Per Student



KELVIN® PowerPole™ Plane Design Challenge

Students in middle school and up, can learn about aeronautics and problem-solving while they build a complete model from provided kit material including a foam tray, motor, propeller, foam body. Then, test how it flies around the power pole.

Middle school students design the top wing; advanced and high school students design the whole plane. Model planes are then attached to the PowerPole™ for a controlled, 12-foot dia. flying area. The PowerPole™ features adjustable height, tangle-free arm, lightweight wire and a power jack connection.

Model planes are evaluated on their speed (rpm), how much load they can carry, and how high they can fly. Airplanes can now be designed to fly faster and higher, controlled by the operator, with no time limit. For an additional challenge, students can design a model car, hovercraft, boat or helicopter for use with the PowerPole™.

The challenge includes a PowerPole™ and materials for 10 foam planes. Requires variable speed power supply (below). We recommend that you also purchase the assembled trainer (#840828, below).

851507	KELVIN® PowerPole™ Plane Design Challenge with Power Jack Connector & 10 Kits	\$265
851508	PowerPole™ Only - See Left	\$199.95
842133	PowerPole™ Plane Kit with Power Jack Connectors - See Above.....	\$9.45 or \$8.95 ea./10+
842102	PowerPole™ Plane Bulk Pack of 10 Kits - See Above	As Low As \$8.49 Per Kit \$84.95

KELVIN® PowerPole™ Plane Trainer

Hook-up this pre-assembled model airplane to the PowerPole™ and fly! Ideal for younger students who may find it easier to begin the challenge by first designing a styrofoam wing for the pre-assembled model plane. The original wings can be easily removed with a screwdriver and replaced with student-designed wings. Requires PowerPole™ and power supply.

840828 [A] Assembled Plane Trainer **\$79.95**

KELVIN® Wooden Wing Design Challenge

Shape Wing into Airfoil! Create an airfoil frame from wood sticks, cardstock and a screweye. Add the Power Module (below) to test. Requires PowerPole™.

840817 [B] Bulk Pack of 20 Kits **\$35.95**

Power Module

Includes motor, propeller, landing gear and wheels.

840816 3/pkg..... **\$14.95**

KELVIN® Wright Bros. Replica Plane

Requires PowerPole™.

842125 [C] Kit **\$11.95 or \$9.95 ea./2+ or \$9.45 ea./10+**

842130 [C] Bulk Pack of 10 Kits **\$89.95**

KELVIN® KElectric™ PowerPole™ Car

This kit includes all parts to design and build a car powered by the PowerPole™. Requires PowerPole™.

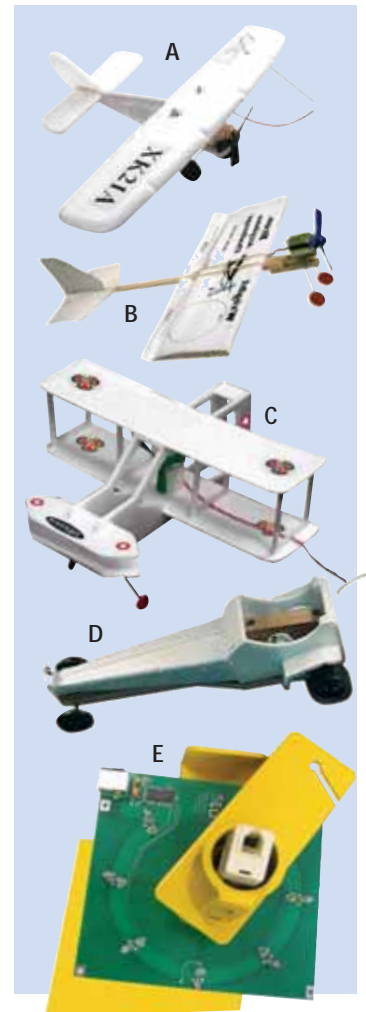
840849 [D] Bulk Pack of 10 Kits **\$69.95**

KELVIN® PowerPole™ Timer

Time the Speed Your Plane is Flying! Timer works with KELVIN® PowerPole™. Enter the radius to determine the Distance-Travelled, Time-Travelled, Revolutions and Plane's Speed. The PowerPole™ Timer Deluxe is eight times more accurate in position detection with eight sensors in a turn instead of just one!

841260 PowerPole™ Timer, 1 Sensor, Windows USB **\$99.95**

841894 [E] PowerPole™ Timer 8 Sensors, Windows USB **\$199.95**



KELVIN® Variable Speed Power Supply

Kel-KPS™ #100, Required
841051, **\$125**





Planes work with PowerPole™

KELVIN® PowerPole™ Historical Planes

Designed by Robert Walker, these model planes are designed to fly around the PowerPole™ (see page 18). Learn about construction, plane design, testing, and the history of flight.

Bulk packs include [5] cardstock models, motors, propellers, landing wheels and instructions. The teachers will have to supply glue and such.

- 842049 [A] Piper Cub Plane Bulk Pack of 5 Kits\$55.95 or \$53.15 ea./2+
- 842051 [B] Piper Cherokee Plane Bulk Pack of 5 Kits\$49.95 or \$44.95 ea./2+
- 842053 Beechcraft Bonanza Plane Bulk Pack of 5 Kits\$49.95 or \$44.95 ea./2+
- 842055 [C] Cessna 172 Skyhawk Bulk Pack of 5 Kits\$49.95 or \$44.95 ea./2+

- 842057 [D] Japanese Zero Plane Bulk Pack of 5 Kits\$49.95 or \$44.95 ea./2+
- 842059 [E] German ME 109 Plane Bulk Pack of 5 Kits\$49.95 or \$44.95 ea./2+
- 842061 [F] American P51 Mustang Plane Bulk Pack of 5 Kits ..\$55.95 or \$53.15 ea./2+
- 842063 [G] British Spitfire Plane Bulk Pack of 5 Kits\$49.95 or \$44.95 ea./2+
- 870118 Cable for PowerPole™\$2.95 or \$2.75 ea/10+ or \$2.45 ea/20+



Planes work with PowerPole™

Foam Plane Kit

- 841672 [H] Kit\$9.95 or \$8.95 ea./10+
- 840732 [H] Bulk Pack of 10 Kits\$84.95

Kel-Pole™ Cargo Plane Kit

Design, test and build a cargo plane that transports the greatest weight. Includes foam, foam core board, landing gear, motor, three different propellers, instructions and four experiments.

- 841673 [I] Kit\$9.95 or \$8.95 ea./10+

Balsa & Tissue Paper Plane Kit

Design and test wing structure. Comes with adjustable balsa structure, wire to power pole, motor, propeller and tissue paper.

- 281663 [J] Kit\$10.95 or \$9.95 ea./10+

Wright Bros. Replica Plane Kit

- 842125 [K] Kit\$11.95 or \$9.95 ea./2+ or \$9.45 ea./10+
- 842130 [K] Bulk Pack of 10 Kits\$89.95

KELVIN® PowerPole® Plane Trainer

Hook-up this pre-assembled model airplane to the PowerPole™ and fly! Ideal for younger students who may find it easier to begin the challenge by first designing a styrofoam wing for the pre-assembled model plane. The original wings can be easily removed with a screwdriver and replaced with student-designed wings. Requires PowerPole™ and power supply.

- 840828 Assembled Plane Trainer\$79.95



KElectric™ Car

This kit includes all parts to design and build a car powered by the PowerPole™.

- 840849 [L] Bulk Pack of 10 Kits\$69.95

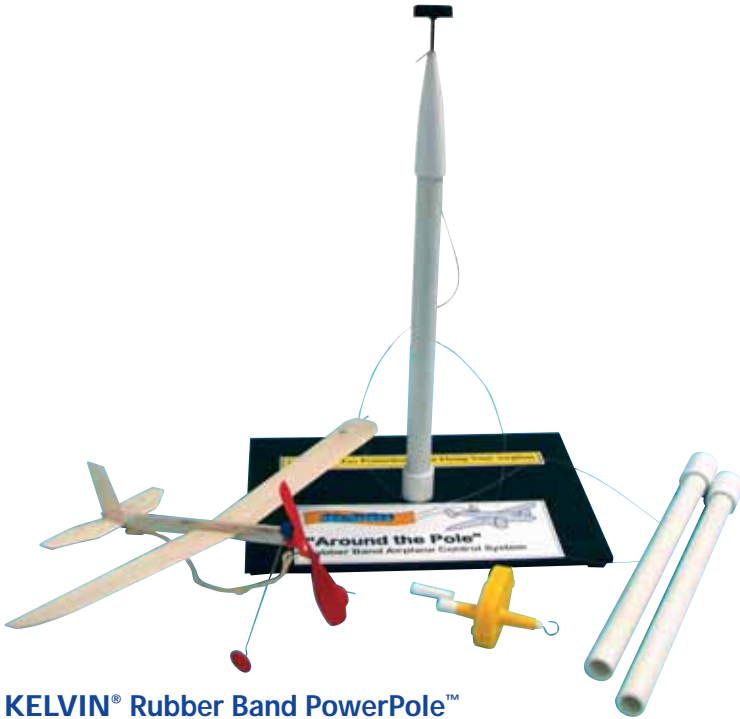


M WOODEN WING DESIGN™

Wooden Wing Design Challenge

Create an airfoil frame from wood sticks, cardstock and a screweye. Add the Power Module (below) to test. Requires PowerPole™.

- 840817 [M] Bulk Pack of 20 Kits\$35.95
- 840816 Power Module (Motor, propeller, landing gear and wheels), 3/pkg.....\$14.95



KELVIN® Rubber Band PowerPole™

Students design, build and test a rubber band powered plane that they will fly around a stationary pole as many times as possible. It helps students understand the forces and mechanisms that make it possible for flight. The Starter Set includes: Adjustable Rubber Band PowerPole™, [3] Ready to Assemble Plane Kits, Hand Winder and Instructions.

842126 Rubber Band PowerPole™ Starter Set **\$99.95**

Rubber Band PowerPole™ Class Set

The Class Set includes: Adjustable Rubber Band PowerPole™, Wing Bending Jig, Hand Winder, [3] Ready to Assemble Plane Kits, [50] Build Your Own™ Rubber Band Powered Plane Kits and Instructions.

242046 Rubber Band PowerPole™ Class Set **\$199.95**



KELVIN® Build Your Own™ Rubber Band Plane

Ready to Assemble. Works with the Rubber Band PowerPole™. Kit

283693 .. **\$3.45** or **\$2.95** ea./10+

Bulk Pack for 50 Students

842047 **\$99.95**

As low as \$1.99 per student!

Rubber Bands for Competition

Enough for 10 Planes.

420749 **\$29.95**



As Low As
\$3.30
Per Student

KELVIN® Rubber Band Plane

Students will learn about the principles of drag, lift, thrust and gravity by building rubber band-powered planes and testing them in flight. Includes balsa body, wings, prop, rubber band, tissue paper, etc.

841818 Bulk Pack of 30 Kits **\$99**

As low as \$3.30 per student!



KELVIN® Rubber Band Flight Activity

One kit and one booklet (for assisting in the plane construction) is required for each student.

281662 Plane Kit **\$3.95** or **\$3.45** ea./12+

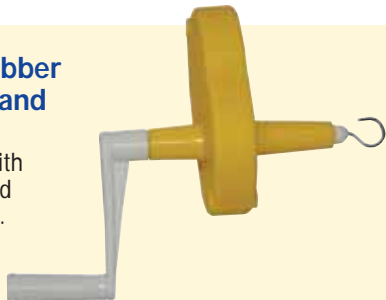
651448 Booklet **\$2.25** or **\$1.95** ea./12+



10:1 Rubber Band Hand Winder

For use with gliders and propellers.

283694, **\$29.95**



Rubberband Propeller Winders

Quickly wind rubber motors on airplanes and boats. This labor saving tool winds 5 (1:5 winder) or 15 (1:15 winder) revolutions on the motor for every 1 hand-cranked turn. Also counts turns.

851266 1:5 Winder **\$7.95** or **\$7.45** ea./6+

851267 1:15 Winder **\$21.95** or **\$20.95** ea./6+





**Launch
Into Flight
Discovery!**

24
Inch Wing Span

As Low As
\$4.99
Per Student

KELVIN® Condor™ Super Size Glider

Students design, build and test a foam glider's **21 in. Fuselage** and **24 in. Wingspan**. Bulk pack includes foam cut to rough shape of the wing and fuselage, balsa, rubber bands, nose weights and instructions with wing templates. **Please Note:** an empty CO₂ cartridge (not included) is required for weight balance if not using the CO₂ Launching Unit. A full CO₂ cartridge required if using the CO₂ Launching Unit. Also, teacher supervision is required. School use only.

283185 Bulk Pack for 20 Students**\$99.95**

As low as \$4.99 per student!

**Can be
launched
with CO₂
Cartridges!**

KELVIN® Condor™ Super Size Catapult Launcher

The 47 in. long track will launch your school foam glider with excitement! Constructed from metal. To launch, use elastic surgical tubing or the optional CO₂ launching unit (see below).

283381 Condor™ Catapult Launcher**\$245**

283406 CO₂ Launching Unit**\$175**

500025 CO₂ Cartridges, 8 gram, 10/pkg**\$4.85** or **\$4.36** ea./10+

47 in.
Long Track

The Most Economical Catapult Launcher!

KELVIN® Skyrider™ Balsa Glider Catapult Launcher

The sturdy Skyrider™ Balsa Glider Catapult Launcher uses a heavy-duty rubber band for the power source, and will send your glider on it's way! Since no CO₂ cylinders or engines are required, students can economically launch one flight after another. Launcher disassembles for easy storage.

- 283414 HUGE – 6 ft. Long Launcher! **\$145**
- 283415 Balsa Glider Bulk Pack for 20 w/ Activity Manual (below) **\$99**

As low as \$4.95 per student!

Glider Design Activity Manual

The Glider Design Activity Manual teaches your students principles of design, aviation, Newton's Laws of Motion, Bernoulli's Principles and more as they design, build and fly the balsa wood gliders that they construct. The gliders are launched by means of the catapult, so the same force can be applied to each glider. Distance and time can be measured to determine which design performs the best—a great activity for a Middle School TSA flight event! Step-by-step instructions take students from first design to a finished glider.

- 652340 Glider Design Activity, 10/pkg. **\$29.95**

BEST DEAL! Skyrider™ Balsa Glider Catapult Launcher with Balsa Glider Bulk Pack & Activity Manual

This **ECONOMICAL** package includes a Skyrider™ Balsa Glider Catapult Launcher, Balsa Glider Bulk Pack for 20 students, and the Glider Design Activity Manual.

- 283416 Best Deal! Skyrider™ Package **\$235**

As Low As
\$4.95
Per Student



HUGE 6-Foot Long Launch Pad

36" Long Pivoting Upright

30" Long Base

As Low As

99¢

Per Student

KELVIN® Clipper Glider

Design a balsa glider that glides the farthest or the highest.

- 841233 Class Pack for 10 **\$9.95**

As low as 99¢ per student!

Balsa Glider Kit Launch by hand!

- 283778 **\$3.75** or **\$2.95** ea./10+ or **\$2.75** ea./25+



Glider Plane

Assembly req. Sold to educators only.
283497 Kit..\$**5.95**
or \$**5.55** ea./10+ or \$**5.45** ea./25+

Flies Like a Bird!



Ornithopter

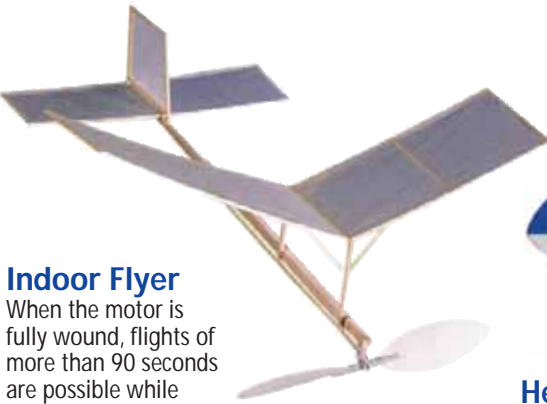
It flies like a bird! Rubber band-powered. Assembly required. Sold to educators only.
283496 Kit...\$**7.95** or \$**7.45** ea./10+ or \$**6.95** ea./25+



KELVIN® Intro Foam Glider

Explore the principles of flight and find out how weight and design features can effect the glider's flight. Each kit includes instructions and glider parts.
280614 Kit\$**3.75**
280606 Class Pack of 20 Kits\$**19.95**

As low as 99¢ per student!



Indoor Flyer

When the motor is fully wound, flights of more than 90 seconds are possible while reaching the roof of a sports hall and turning slowly in circles. It has a wingspan of 28 cm (about 11"), a body length of 33 (about 13") cm and weighs only 5 gm including the rubber motor. Kit includes: balsa strip, wing covering, propeller and plans. Requires assembly.
283680 Kit\$**19.95** or \$**18.95** ea./10+



Helicopter

Rubber band-powered helicopter. The propeller has adjustable pitch for testing lift by changing the pitch.
Small Helicopter (9 x 8 in.) Kit
283493\$**3.95** or \$**3.45** ea./10+ or \$**3.25** ea./25+
Large Helicopter (11 x 9-1/2 in.) Kit
283494\$**4.45** or \$**4.25** ea./10+ or \$**3.95** ea./25+



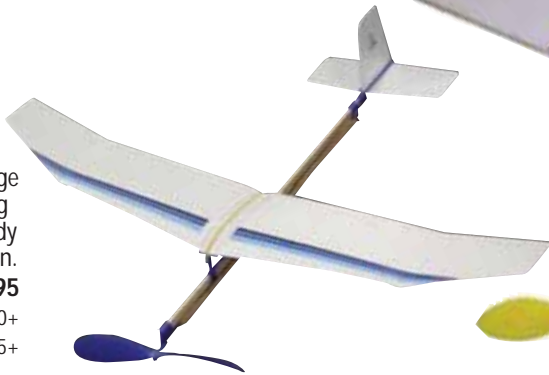
KELVIN® Advanced Foam Glider

Take your study of flight even further with these hands-on kits. Everything you need to build a glider is included along with instructions.
280613 Kit\$**3.95**
280611 Class Pack of 20 Kits\$**59.95**
280612 Bulk Pack of 100 Kits.....\$**225**

As low as \$2.25 per student!

Large Plane

Features rubber propeller and large foam wings. Wing span is 20 in. Body length is 14-1/2 in.
283495 Kit..\$**7.95**
or \$**7.45** ea./10+
or \$**6.95** ea./25+

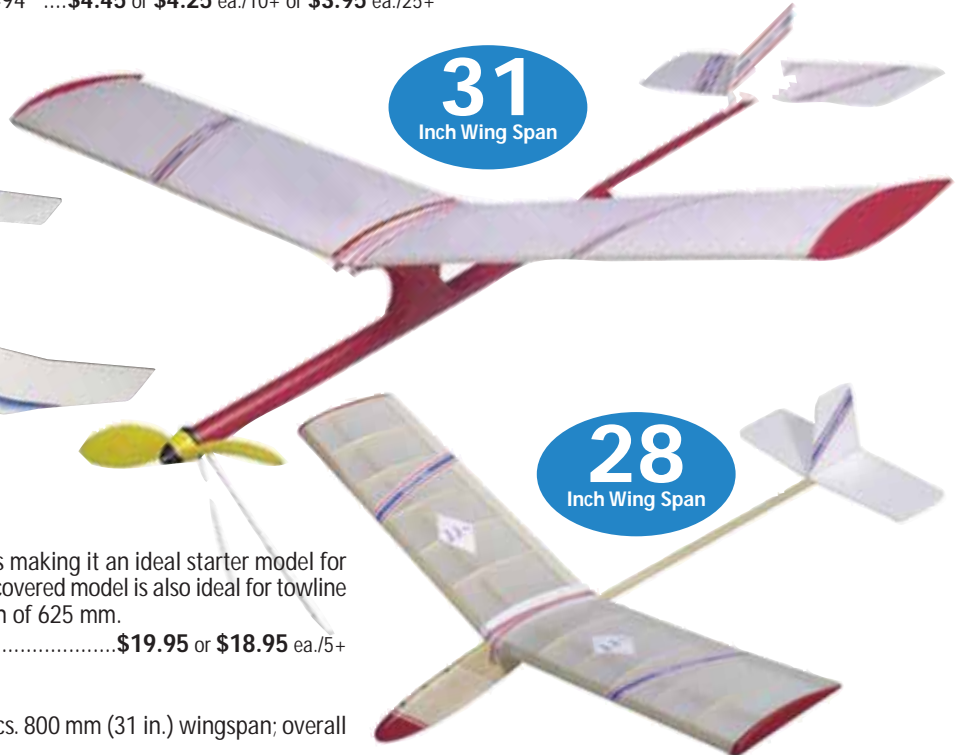


Wind Flyer 2

This glider has good flight characteristics and mild manners making it an ideal starter model for learning conventional building techniques. This tissue paper covered model is also ideal for towline launching. 735 mm (28 in.) wingspan with an overall length of 625 mm.
283684\$**19.95** or \$**18.95** ea./5+

Dragonfly

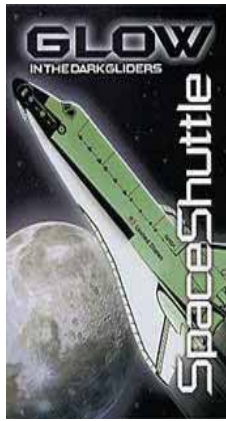
Rubber-powered plane with exceptional flight characteristics. 800 mm (31 in.) wingspan; overall body length is 650 mm.
283679 Kit\$**29.95** or \$**28.95** ea./5+



31
Inch Wing Span

28
Inch Wing Span

Whitewings



F/A-18 Hornet

Easy to assemble in just two minutes. Includes an aircraft fact sheet. No glues or tools required.

282019 1 Model Kit **\$4.25** or **\$3.95** ea./3+

Space Shuttle / Super Sonic Combo

The Space Shuttle and the S.S.T are sure to blow you away with dazzling flights! Each flyer includes a foam core flyer and Catapult launcher.

281972 2 Models Kit **\$16.95** or **\$15.95** ea./3+

Spirit of St. Louis

Balsa/fiber plane, instructions, flight manual, and historical account.

281798 1 Model Kit **\$7.95** or **\$7.45** ea./3+

Lockheed Vega

Contains an historical overview of the Lockheed Vega and its flight.

282013 1 Model Kit **\$7.95** or **\$7.45** ea./3+

Air Force One Plane

This Air Force One model is a real beauty with accurate four-color graphics. The model Includes Historical Overview and Assembly, Instructions, Balsa fuselage, Wing parts, Catapult launcher and Dog Tag order form.

281789 1 Model Kit **\$7.95** or **\$6.95** ea./3+

History of Passenger Planes

This class pack includes [10] Historic Planes, [5] High Performance Paper Gliders and Detailed Manual.

651642 15 Models Kit **\$18.95** or **\$17.95** ea./3+



War Birds

Six exciting foam gliders kit. Planes included in this kit are classic type with realistic coloring. Easy assembly; flies very good.

281965 6 Model Pack **\$19.95** or **\$17.95** ea./3+



Sky Carrier and Wolfhound Combo

Kit includes: [2] foam core planes, [2] propellers and [2] sets of landing gear. No tools or glue required!

282015 2 Model Pack **\$9.95** or **\$9.45** ea./3+



Super Bear and Super Talon Combo

Kit includes: [2] foam core planes, [2] propellers and [2] sets of landing gear. No tools or glue required!

282016 2 Model Pack **\$9.95** or **\$9.45** ea./3+



Triple Liner Passenger Jets Combo

Get there three different ways with the Triple-Liner COMBO. 2-, 3- and 4-engine models bring you the best in colorful, high-flying fun! This kit includes: [3] foam core gliders and [3] catapult launchers.

281974 3 Model Pack **\$8.95** or **\$7.95** ea./3+

Triple Jet Combo

Witch Doctor, Ghost, and Talon coming to you for the first time in this Triple-Jet COMBO. Fly 'em fast. Fly 'em high. Fly 'em far. Kit includes: [3] foam core flyers and [3] catapult launchers.

281975 3 Model Pack **\$15.95** or **\$14.95** ea./3+



Tech Glider System

Complies with TSA's "Flight Challenge" flying event. The Primary Pack (#281980), for 24 students, includes TSA specified balsa blanks for wings, fuselage and tail assembly, clay ballast, "B" size graph paper, Designer outlines and a design manual for teachers. The Consumable Pack (#281981), supplies all of the above for 24 students, except for the teacher's manual. The Catapult Kit (#281982) includes enough rubber to create 2 loops.

281982 Catapult Kit **\$18.95**

281980 Primary Pack, 24 Kits **\$79.95**

281981 Consumable Pack, 24 Kits **\$58.95**



Delta Dart

Best for first time builders! Build with glue sticks and white glue for a faster, cleaner project. Wing dihedral can be lowered for a 305mm wingspan needed for national competition. English/Spanish instructions.

- 280037 Kit\$2.45 or \$2.25 ea./6+
- 280130 Bulk pack for 35\$54.95 or \$52.95 ea./3+
- 850695 7" L x .125" T, Motor Loops, 35/pkg.\$4.95



Super Delta Dart

It's great for outdoor flying with longer flight duration, stronger framing, movable/removable wing (545mm wide) for your center of gravity experiments. Features bilingual (English/Spanish) instructions.

- 280360 24/pkg.\$69.95 or \$67.95 ea./3+
- 850695 7" L x .125" T, Motor Loops, 35/pkg.\$4.95



SIG Cub

This advanced trainer/sports model is for long flights and high altitudes in constricted areas. Programmed instructions, pre-cut balsa wood, plastic propeller, rubber motor, covering material, and directions. 23-1/2" wingspan, 22-3/4" length, 1oz. weight.

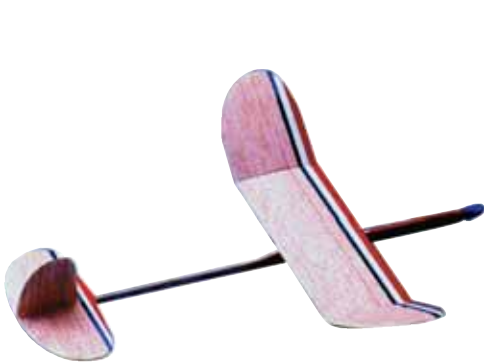
- 280038 Kit\$11.95 or \$10.95 ea./3+



Shoebox R.O.G.

A rubber-powered flying laboratory designed to make long duration flights to a minute indoors! 8/pkg.

- 280507\$32.95 or \$30.95 ea./3+



Flip Glider

Features wing tip dihedral for stability, and airfoil that your students sand to shape for optimal lift. This kit may be easily converted to an outdoor catapult launched glider.

- 280362 Bulk pack for 35\$74.95



Star Glider

An economical first step in aviation science.

- 281983 Bulk pack for 35\$49.95



Right Flyer

The big brother to the Shoebox R.O.G. features cambered airfoil wings and a low thrust line for high performance.

- 280359 24/pkg.\$99.95

Teaching with Model Airplanes Teacher's Guide

Class planning, aviation history, the scientific principles involved with flight, updated curriculum enhancement activities, extensive vocabulary section and suggested readings. This invaluable teaching tool is included in each aviation class pack.

- 651847\$3.25 or \$2.95 ea./10+



Build-N-Fly Model Planes

The Cadet, Cloud Buster and Fly Boy are the 2nd, 3rd and 4th skill levels, respectively, in the "Build-N-Fly" construction kit series. This series will teach you how to build and enjoy flying rubber-band powered model airplanes. The Cadet has a wing span of 14-1/2", the Cloud Buster, 17-3/4" and the Fly Boy, 21". All three ideal for a ages 12 and older.

- 282402 Cadet.....\$12.95 or \$11.65 ea./3+
- 282403 Cloud Buster.....\$9.95 or \$9.45 ea./3+
- 282404 Fly Boy\$11.95



Build By Number Model Planes

Ideal for individual use (ages 10 & up) or for group model building such as in a school class. Each kit contains the right combination of building material and "power package" to assemble an attractive model with good flying ability.

- 282405 Piper Cub 95 Model Plane with 20" Wingspan\$8.95 or \$8.45 ea./3+
- 282406 Lancer Model Plane with 24" Wingspan\$15.95 or \$15.15 ea./3+



Great for the study of aerodynamics and the testing of airfoils!

KELVIN® Flight Lab

This Lab Includes:

- Wright Bros. Plane Design Challenge™
- Hot Air Balloon Design Challenge™
- PowerPole™
- Variable Speed Power Supply
- ATEC's Flight Control Kit
- [35] Delta Dart Plane Kits
- R/C Flying Saucer
- Flight Yoke and Pedals, USB
- Stopwatch
- 100-ft. Tape Measure

Plus a Lesson Guide, [3] Competition Medals, [30] Tech Excellence Certificates and a Workstation Sign.
840762 Computer Required\$1,995



How does a Stealth plane fly? The answer to this can be answered with the study of aerodynamics and the testing of airfoils. Students will learn how the shape of an object allows air to lift or push it.

This start-up package features the Wright Bros. Airplane Design Challenge™ which allows students to design the top airfoil for a model plane or the complete plane, and test it using the KELVIN® PowerPole™ (in a 5-6 foot flying radius).

From balloons to flight exploration, hands-on activities include designing and building hot air balloons and gliders to evaluate shapes. Grades 6-12.

Top Fuel
1qt. Additional charges apply; Shipped ground only.
281849 [A]\$15.95

Fuel Container/ Dispenser
281852 [B]\$14.25

0.049 Plane Engine Glow Plugs
850656 [C]\$7.95

Carbon Glow Plug
281846 [D]\$7.95

Glow Plug Charger
281847 [E]\$27.95

4-Way Wrench
281856 [F]\$5.95

Flight Box
281850 [G]\$69.95