KELVIN® EDUCATIONAL

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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KELVIN® Rubber BandPowered
Build A Better Racer™

Though not mousetrap-powered, this vehicle teaches the same principles of physics and mechanics as our Mousetrap Racers. The unique design utilizes the energy stored in a stretched rubber band. Minor soldering is required.

Economical NO SOLDERING Version

- 841920 Kit.................... $6.95 or $6.45 ea./10+ or $5.95 ea./25+ As Low As $5.00 Per Kit
- 841921 Bulk Pack of 25 Kits ................................................................................ $125

As Low As $6.25 Per Kit

Designer Version - Minor soldering is required.

- 841878 Kit.................... $7.95 or $7.45 ea./10+ or $6.95 ea./25+ As Low As $6.25 Per Kit
- 841879 Bulk Pack of 20 Kits ................................................................................ $125

As Low As $6.25 Per Kit

KELVIN® Rubber Band Paper Racer

Students will enjoy creating their own rubber band racer from paper and a few parts. Varying the design will effect how fast and how well their racer will perform. Great for competitions!

- 842301 Kit......................................................... $8.95 As Low As $4.95 Per Kit
- 842302 Bulk Pack of 20 ................................................................................ $99

As Low As $4.95 Per Kit

Bulk Pack Prices
As Low As

$4.95 Per Each Student Kit

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.
**KELVIN® Basic Car Platform**

- 841417  Bulk Pack for 100 .................. As Low As 99¢ Per Kit $99

---

**KELVIN® Balloon Car**
From installation of the air nozzle to how to keep the balloon in position, students are faced with design decisions. Students can add structures to help deflect the airstream and control direction. Blow into the tube, fill up the balloon and let it go to see which car goes the farthest. As students test for distance, they can observe their design and improve it. This kit includes [4] wheels, [2] axle straws, a balloon, and wood.

- 841257  Kit .................................................. $3.95 or $3.45 ea./10+ or $3.25 ea./25+
- 841418  Bulk Pack for 50 .................. As Low As $2.90 Per Kit $145
- 870013  9” Balloons, 144/bag, Assorted Colors .............. $13.95 ea. or $12.59 ea./25+

---

**KELVIN® Rubber Band & Propeller Car**

- 841205  Kit .................................................. $3.95 or $3.45 ea./10+ or $2.95 ea./25+
- 841954  Bulk Pack for 50 .................. As Low As $2.50 Per Kit $125

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Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

**KELVIN® Balsa Car**
Paint, shape, and design your balsa into a car! Balsa wood is easy to cut, shape and decorate. Each kit includes: [4] wheels, [2] axles, straw and a balsa block (1-1/2” x 3” x 6”). Shaping, axle hole drilling and assembly required. Kit.

841230  ...$4.85 or $4.45 ea./10+ or $3.95 ea./25+

**KELVIN® Wood Car**
Students design and shape a piece of bass wood into a fast racing car. Then they can have competitions to see whose is the fastest. Kit includes: [4] wheels, [2] axle straws and a wood blank.

841254  ...$4.95 or $4.45 ea./10+ or $3.95 ea./25+

**KELVIN® Ramp Racer™ Balsa Car**
Design and build a cruiser, sedan or mini van and drive it in style. The design that travels the fastest down a test ramp is the winner. Easy to shape with hand tools. This kit includes: wheels, balsa blank (2” x 3” x 9”), axles and DesignGrid™ Paper.

841337  ...........................................$5.95 or $5.45 ea./10+ or $4.95 ea./25+

**As Low As**

$3.95
Per 25+

**As Low As**

$4.95
Per 25+
### KELVIN® Motor and Propeller Car


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<td>Bulk Pack for 30</td>
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### KELVIN® GR Cruiser Car

Build a battery-powered car by building a U-shaped body, install the mechanism and race it down the hall! Includes wood blank, motor, gears, battery holder, wheels and axles. Requires [2] AA batteries.

<table>
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<td>841425</td>
<td>Bulk Pack for 25</td>
<td>As Low As $4.95 Per Kit $123.75</td>
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### KELVIN® E.V. Electric Vehicle

Electric-powered vehicle (E.V.) can be built with gears or pulleys to transfer power from the motor to the wheels. Kit includes: wood base (1/4” x 1-1/2” x 6”), motor, wheels, axles, switch, gears, pulleys, washers, battery holder, rubber bands and grid paper. #840851 also includes [2] AA nicad batteries. #841016 requires [2] AA alkaline batteries. Soldering, shaping and assembly required.

<table>
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### KELVIN® Bottle Geek” Car


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TC4 Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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KELVIN® Worm Gear Car
841255 Kit ......$7.95 or $6.95 ea./10+ or $5.95 ea./25+

KELVIN® Gearbox Car
Students change the gear ratio to get different speeds. This kit includes a gearbox, motor, battery holder, switch, axles and wheels. Requires [2] AA batteries, soldering and the use of a hot glue gun for assembly.
841256 Kit ........$9.95 or $8.95 ea./10+ or $7.95 ea./25+

KELVIN® Gear Car
841207 Kit ....................$9.95 or $8.95 ea./10+ or $7.95 ea./25+

Gear & Motor Bracket
990204 S/pkg. ..................$9.95 or $8.95 ea./10+ or $7.95 ea./25+

KELVIN® Generator Motor Car
Powered by a DC motor generator you build.
842087 Kit..........................$29.95 or $27.95 ea./10+

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.
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KELVIN® Solar Sedan Kit
Teach your students the principles of light to electricity conversions through this hands-on modeling adventure. Students will design and model the vehicle body and solar panel positioning mechanism. Kit includes: 9-1/2 in. long foam body block, 2V, 550mA solar cell, wheels, axles, motor, gears, instructions and more. Requires assembly and tools for cutting, shaping, and gluing.

842415 Kit - Shown Above ⏰ $19.95 or $18.45 ea./10+
842417 Bulk Pack of 10 Kits ⏰ As Low As $16.50 Per Kit $165

KELVIN® Solar Dragster Design & Model Kit
Teach your students the principles of light to electricity conversions through this hands-on modeling adventure. Students will design and model the vehicle body and solar panel positioning mechanism. The kit includes the following: 10 in. long wood blank, 2V, 550mA solar cell, wheels, axles, motor, gears, instructions and more. Requires assembly and tools for cutting, shaping, and gluing.

842412 Kit - Shown Right ⏰ $19.95 or $17.95 ea./10+
842414 Bulk Pack of 10 Kits ⏰ As Low As $16.50 Per Kit $165

Features NEW 2V, 550mA Solar Cell
Solar cell type will vary based on stock.

Design Your Own Body

NEW
Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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KELVIN® ECONOMY
Solar Car Kit
Teach your student’s the principles of light to electricity conversions through this hands-on modeling adventure. Students will design and model the vehicle body and solar panel positioning mechanism.

Kit includes: 7 in. long foam body block, 2V, 200mA solar cell, wheels, axles, motor, gears, instructions and more. Requires assembly and tools for cutting, shaping, and gluing.

842409 $11.85 or $10.45 ea./10+
842413 Bulk Pack of 10 Kits $99.50
As Low As $9.95 Per Kit

KELVIN® Solar Monster Truck Kit
Students will design a truck that can carry the largest load powered by the solar cell. The kit includes the following: foam body block, solar panel, wheels, axles, motor, gears, instructions and more. Requires assembly and tools for cutting, shaping, and gluing.

842416 Kit, $19.95 or $18.45 ea./10+
Bulk Pack of 10 Kits
842418, $165
As Low As $16.50 Per Kit

Solar cell type will vary based on stock.
**KELVIN® Economy Balsa Wood Solar Racer™ Bulk Pack**
Bulk pack includes: motors, 2V, 200mA solar cells, wheels, axles, tube holders for axles, washers, gear set, wood bases and instructions. Requires glue gun for class.
841415  Bulk Pack for 20  ...As Low As $9.45 ea.  $189

**KELVIN® Economy Balsa Wood Solar Racer™**
Each kit includes: 2V, 200mA solar cell, DC solar motor, a balsa wood base (3/32 x 3 x 12 in.), gear wheels with plastic axles and grid paper. Soldering, shaping and assembly required. Runs best outside on a bright and clear sunny day. Requires a light source (sunlight is best) and a flat smooth surface.
841236  Kit ..............................................$11.45 or $10.25 ea./10+

**KELVIN® 2 Solar Racer™**
Kit includes [2] 2V, 200mA solar cells, DC solar motor, balsa wood blank, pulleys, wheels, gears, axles, propeller, rubber bands and DesignGrid™ sheets. Requires assembly, soldering, and tools for cutting, shaping, and gluing. Also, requires a light source (sunlight is best) and a smooth surface.
840987  Kit ..............................................$18.95 or $17.95 ea./5+

**KELVIN® 3 Solar Racer™**
Kit includes [3] 2V, 200mA solar cells, DC solar motor, balsa wood blank, pulleys, rubber bands, wheels, gears, axles, propeller and DesignGrid™ sheets. Requires assembly, soldering, and tools for cutting, shaping, and gluing. Also, requires a light source (sunlight is best) and a smooth surface.
840988  Kit ..............................................$24.95 or $22.95 ea./5+

---

**Features**

2V, 200mA Solar Cells

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**TC8**
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**KELVIN® Solar Zip Racer™**

Kit comes with a 2V, 200mA solar cell and 7-1/2 in. pre-cut acrylic body—ready to assemble. The racer features an adjustable steering system, adjustable position solar cell support and geared transmission. Requires assembly and tools for cutting, shaping, and gluing. Also, requires a light source (sunlight is best) and a smooth surface.

842085  $16.95 or $15.95 ea./10+

**KELVIN® Solar Racer HP1™**

Kit includes a 2V, 550mA solar cell, 2 light wheels with rubber tires, 2 lightweight front wheels, 8 in. long wood blank, solar motor, 2 axles, 2 axle holders, 4 gears, 4 pulleys, worm gear, 2 wires and a guide to get you started. Ideal for High School and College levels. Requires assembly and tools for cutting, shaping, and gluing. Also, requires a light source (sunlight is best) and a smooth surface.

841789  Kit ............................................................................................ $19.95 or $17.95 ea./10+

**KELVIN® Economy Corrugated Plastic Solar Racer™**

Each kit includes: 2V, 200mA solar cell, DC solar motor, 12 in. corrugated plastic base, gear wheels with plastic axles and grid paper. Soldering, shaping and assembly required. Runs best outside on a bright and clear sunny day. Requires assembly and tools for cutting, shaping, and gluing. Also, requires a light source (sunlight is best) and a smooth surface.

842095  Kit .......................... $11.45 or $10.25 ea./10+

842096  Bulk Pack for 20 .......................................................... $189

As Low As $9.45 Per Student

Features our NEW 2V, 550mA Encapsulated Solar Panel!
KELVIN® Solar Racer 1™
This problem-solving kit includes a 200mA/2V DC solar cell, DC solar motor, balsa wood blank, pulleys, wheels, gears, axles, rubber bands, propeller and DesignGrid™ sheets. Requires soldering and a light source.
840693 Kit ............................................... $13.95 or $12.95 ea./24+  

KELVIN® Solar Racer™ How To Video
This video explains how students are given the basic parts and have to design a solar-powered racer.
120929 Video ................................................... $29.95

Provide students with a hands-on understanding of solar and wind energy technology!

Solar Energy House
7 x 7 x 8 in. Long

Advanced Solar Energy House
7 x 14 x 8 in. Long

KELVIN® Solar Energy Houses
These kits will guide your students through activities focused on the conversion of light into electrical energy as well as heat transfer and storage for the purpose of space and water heating. Requires a light source.

Alternative Energy Houses

Find ENERGY HOUSES in the Structures chapter on pg. 56
### KELVIN® Educational

**NEW 2V, 200mA Solar Cell**
- 2V, 200mA Solar Cell
- Alternative Energy Battery Charger
- Comes with 10 in. long red and black stranded wires. Measures 4 x 4 inches.
- Shown above.
- $10.75 or $9.75 ea./6+

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<tr>
<td>220025</td>
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<td>$1.35 or $1.25 ea./6+</td>
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### Solar Panel with AA & 9V Battery Chargers
- Has switch to select 3, 6, 9 & 12VDC. Measures 165 x 89 x 25 mm.
- Includes adapters to charge two ‘AA’ or a 9V battery.
- Shown above.
- $19.95

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### Solar Motors Only
- **2V, 550mA Solar Cell**
  - Measures 4 x 4 inches.
  - Shown above.
  - $10.75 or $9.75 ea./6+

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<td>220025</td>
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### KELVIN® Solar Backup Power Kit
- Convert your solar racer to battery power for indoor rainy day testing.
- Includes battery holder, slide switch, wire and ‘AA’ batteries.
- Shown Left.
- $1.95 or $1.75 ea./12+

### Rechargeable Light Source 10,000,000 Candle Power
- Perfect for performing solar activities indoors.
- Shown Right.
- $79.95

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KELVIN® Build A Better® Mousetrap Racer™
841206 Kit ........................................................................................................................... $3.45 or $3.25 ea./24+

KELVIN® Build A Better® Mousetrap Racer™ Bulk Pack
Bulk pack includes [100] mousetraps, [200] wheels, [200] axles, [200] CD inserts, [100] wood bases and [100] dowel rods with cable ties. CDs and mousetrap arms are not included.
841414 Bulk Pack of 100 Kits ........................................................................................................ As Low As $1.75 Per Kit $195

KELVIN® Economy Build A Better® Mousetrap Racer™
841282 Kit ........................................................................................................................... $2.95 or $2.75 ea./24+

Victor Regulation Mousetraps
850699 10pkg. .................. $5.95 or $5.35 ea./6+ 851205 72pkg. .................. $37.95

Mousetrap Arms
391040 100/pkg. ............... $24.95

As Low As $2.75 Per 24+ $1.95 Per Student

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**KELVIN® Educational Original Ideas from Transportation**

The Perfect Centerpiece for a STEM-based Unit!

---

**KELVIN® Adjustable Economy Mousetrap Vehicle PN**

The new Economy Mousetrap Vehicle provides your students the opportunity to make design decisions that will impact the performance of their mousetrap racer.

Adjust the length of the vehicle. Select a length for the lever arm. Move the mousetrap to different locations. Kit includes:

- 842384 Kit $0.00

---

**KELVIN® Paper Mousetrap Car**

Students can practice their engineering skills by building a vehicle that will travel the farthest using the mousetrap as the power source. In this activity, students explore energy transformation, friction and safety. Kit includes: pre-printed cardstock, mousetrap, KELVIN® mousetrap wheels, front wheels, and axles.

- 841315 Kit $4.95 or $4.75 ea./10+ or $4.45 ea./25+

---

**KELVIN® Foam Mousetrap Car**

Each kit comes with: mousetrap, mousetrap arm, foam sheets, rubber bands, front wheels, axles and instructional design material.

- 841338 Kit $5.95 or $5.45 ea./24+
- 841573 Bulk Pack of 20 Kits As Low As $4.99 Per Kit $99.95

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As Low As $4.99 Per Student

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**KELVIN® Double Pulley-Driven Mousetrap Racer™**
Provides students with the opportunity to experiment with different pulley diameters and observe the results of their designs on the vehicle's speed and distance traveled. Minor soldering required.

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<td>841871</td>
<td>Bulk Pack of 20 Kits</td>
<td>As Low As $6.25 Per Kit $125</td>
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Contains ready-to-copy design briefs and challenges to engage students in the engineering design process. Contains photographs, drawings and explanations of the scientific concepts behind the challenges.

<table>
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<tr>
<td>652579</td>
<td>Black &amp; White Version of Guide</td>
<td>$4.95</td>
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**KELVIN® Gear-Powered Mousetrap Racer™**
Provides a selection of gears. Students can experiment by combining different gear diameters and observe the effects on the vehicle’s speed and distance traveled. Minor soldering is required.

<table>
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**Victor Regulation Mousetraps**

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**Mousetrap Arms**

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**KELVIN® Super 10F Racer™**

New from KELVIN®. Design a dragster vehicle with 1 or 2 super capacitors that can be recharged multiple times using the Capacitor Charging Unit (see right).

Super Racer I measures 6-1/2 in. long with a 10F super capacitor. Super Racer II measures 8-1/2 in. long with [2] 10F super capacitors. Comes with 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.

- 842390   Super 10F Racer I Kit with [1] 10F Super Capacitor............................ $7.95 or $6.95 ea./10+
- 842392   Super 10F Racer II Kit with [2] 10F Super Capacitors............................ $11.95 or $9.95 ea./10+

**KELVIN® Super Capacitor Track**

Two-lane super capacitor track is 8 ft. long. Add several to make a longer track. You may want to use fishing line and screweyes to keep car straight on the track while running. $20 Oversized Shipping Charges Apply.

- 842395   8 ft. L Track .................................. $75

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Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

KELVIN® Educational

KELVIN® Super Racer™

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 cardboard 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

KELVIN® Super 20F Racer™

Use the Ni-Cad Battery Charger (#220035) to recharge your NiCad ‘D’ battery (#220029). Once your battery is fully charged, use the power to connect with the Super Racer™ Charging Units (#842393 or 842394). The power from the battery will be used to store energy in the super capacitors to run. The charging unit LED light is red when not charged and green when charged and ready. When the super capacitor is charged disconnect the charging unit and run your Super Racer™.

842393  Super Racer I Capacitor Charging Unit - Req. [2] ‘D’ Batteries ............ $26.95
842394  Super Racer II Capacitor Charging Unit - Req. [4] ‘D’ Batteries ......... $29.95
220029  ‘D’ Rechargeable Battery ......................................................... $6.95
220035  Ni-Cad/Ni-mh 4-Cell Battery Charger ........................................ $29.95

KELVIN® Super Capacitor Airplane

Design and build a foam 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

KELVIN® Super Racer™ Capacitor Charging Units

Use the Ni-Cad Battery Charger (#220035) to recharge your NiCad ‘D’ battery (#220029). Once your battery is fully charged, use the power to connect with the Super Racer™ Charging Units (#842393 or 842394). The power from the battery will be used to store energy in the super capacitors to run. The charging unit LED light is red when not charged and green when charged and ready. When the super capacitor is charged disconnect the charging unit and run your Super Racer™.

842393  Super Racer I Capacitor Charging Unit - Req. [2] ‘D’ Batteries ............ $26.95
842394  Super Racer II Capacitor Charging Unit - Req. [4] ‘D’ Batteries ......... $29.95
220029  ‘D’ Rechargeable Battery ......................................................... $6.95
220035  Ni-Cad/Ni-mh 4-Cell Battery Charger ........................................ $29.95

NEW

30 Inch Wing Span

Super Racer II Charger Unit

Super Racer I Charger Unit

Battery Charger

KELVIN® Super Racer™

Capacitor Charging Units

Use the Ni-Cad Battery Charger (#220035) to recharge your NiCad ‘D’ battery (#220029). Once your battery is fully charged, use the power to connect with the Super Racer™ Charging Units (#842393 or 842394). The power from the battery will be used to store energy in the super capacitors to run. The charging unit LED light is red when not charged and green when charged and ready. When the super capacitor is charged disconnect the charging unit and run your Super Racer™.

842393  Super Racer I Capacitor Charging Unit - Req. [2] ‘D’ Batteries ............ $26.95
842394  Super Racer II Capacitor Charging Unit - Req. [4] ‘D’ Batteries ......... $29.95
220029  ‘D’ Rechargeable Battery ......................................................... $6.95
220035  Ni-Cad/Ni-mh 4-Cell Battery Charger ........................................ $29.95

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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2-Lane Downhill Racer® Track
841388 Frame and Track ★ $575
841445 Track ONLY (No Frame) ★ $325
841444 PVC Frame ONLY $325

4-Lane Downhill Racer® Track
841389 Frame and Track ★ $795
841446 Track ONLY (No Frame) ★ $525
841444 PVC Frame ONLY $325

★ Please note that $350 Oversized Shipping Charges Apply.

KELVIN® Downhill Racer® Tracks
Similar to Pinewood Derby® (Pinewood Derby is a registered trademark of the Boy Scouts of America), this raceway is an incredible 32 ft. long (in four 8 ft. sections) and is conveniently available in 2- or 4-lane configurations. Available separately is the timing unit (see Multi-Lane Timer at right) with display that shows the winner of the different races and the racing time of the different cars.

KELVIN® Multi-Lane Timer
This easy to operate timer is ideal for competitions and timing from 1 to 6 lanes (with the 2 add-on units). The bright LED displays are large enough for the whole class to view.

All the lanes are timed beginning when the lever for the Downhill Racer™ (see left) releases the cars. When cars pass the sensors at the end of the ramp they stop the counter and the winning lane is displayed on top and the rest in winning order. The lane number is shown on the left and the time it took is shown on the right.

The Starter Unit includes: a Multi-Lane Controller, 2-Lane Display with mounting, power adapter, and 50 ft. long Cables.

Starter Unit with Controller (for up to 6 lanes) and 2-Lane Display
841393 $295

Additional 2-Lane Display (Optional)
841394 $195

KELVIN® Downhill Racer® Wood Car
Scouts love this activity, now you can do it too! Students can design and build the best looking and fastest vehicle to speed down the track. Includes a wood block (1-1/4"x1-3/4"x7") and [2] 1/16"x1/8" deep axle grooves already cut. Also includes Speed Axles and KELVIN® High Speed Wheels for faster speeds. Use with the KELVIN® Downhill Racing Tracks below. Wood blocks require shaping with tools and sanding (younger student should use the Foam Penny Racer). Grades 5+.

841592 Wood Car Kit $3.75 or $3.50 ea./10+
841817 Bulk Pack for 30 As Low As $3.30 Per Kit $99

As Low As $3.30 Per Student

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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Measure Force As Your Vehicle Bounces Along A Test Track!

KELVIN® Odyssey Vehicle Suspension Challenge
This activity will challenge students to design and construct a test vehicle suspension that will minimize the pitch and roll effects created as the vehicle travels across an obstacle test track.

Students will test a wide variety of materials and designs as they create an efficient suspension system. The test track may include a variety of obstacles to challenge students as they try to engineer a smooth ride over the course. The software will monitor & display the pitch and roll values of the suspension system.

Students will actually see the force at which the vehicle bounces as it travels along the test track. Maximum and minimum values are also displayed in real numbers. Students will be able to quickly see how well they have engineered their suspension system.

841607 Computer Required ...............$845

Complete Package for Odyssey Vehicle Suspension Challenge
Includes Odyssey Vehicle Suspension Challenge (#841607 above) and a Computer with a 17" LCD Display and pre-loaded Odyssey software.

841626 Includes Computer ............................................................$2,595

OVER 50 INTERACTIVE SCREENS!

Odyssey Workbooks To Complement Your Kits

Tech Challenges
Construction, Power and Energy, Communication, Transportation, Biotech and Manufacturing.
652132 106 Pages .................................................................$25.95

The Social Impacts of Technology
Social, economic, political, health and environmental impacts of technology.
652131 101 Pages .................................................................$25.95

Technology & Science
Explore basic science concepts that explain how hundreds of technologies function.
652130 270 Pages .................................................................$39.95

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.
KELVIN® Bill and Ted’s “Eggsellent” Adventure Unit

Bill and Ted’s “Eggsellent” Adventure is a Safety Car Case Study Activity developed by Barry Borakove, a leading technology education teacher from Syosset High School in New York. This activity, originally developed for use in the Principles of Engineering Course, incorporates engineering concepts along with problem-solving, design, physics, mathematics, and technology.

The class is divided into teams. Students are challenged to design a safety system for a pre-assembled platform base car that protects the occupant (an egg), in a plastic bag.

**The object is to design and build the:**
- Restraint System
- Car Body
- Ergonomics System
- Crumbling Zone

Students describe and then draw their designs for each objective using a design portfolio and, if possible, formally draft their design using a school CAD program. The teacher should be presented with the design portfolio before the team proceeds to the next step.

Once the design is approved, the teacher will provide the students with the tools and material needed to build the car body and crumbling zone. For the restraint and ergonomics systems, the teams can also use styrofoam, bubblewrap, cardboard, plastic bags, rubberband, etc.

After construction is done, the teams test their designs and evaluate the survival of the occupant; the egg. The car is released from the top of a 16 ft. ramp and races down towards impact with the brick (provided by the teacher). During the evaluation stage, you may want to incorporate one of the KELVIN® Motion Timers™, to measure the car’s speed or the KELVIN® Odyssey™ Impact Analyzer to measure the impact on the passenger.

Each unit includes an 8 ft. long KELVIN® Eggsellent Track (we recommend two tracks connected end-to-end for this activity, #841262), Assembled Car Base (#841263), Car Base Kit (#841264) and Reproducible Teaching Materials. Grades 7-12.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>841272</td>
<td>8 ft. Track 1 (1 ea.)</td>
<td>$175</td>
</tr>
<tr>
<td>841262</td>
<td>8 ft. Tracks (2), Assm. Car Bases (2), Car Base Kits (2)</td>
<td>$345</td>
</tr>
<tr>
<td>840978</td>
<td>KELVIN® Kel-Timer™ - see online for info</td>
<td>$295</td>
</tr>
</tbody>
</table>

**KELVIN® “Eggsellent” Assembled Car Base**

You’ll need one car for each team of 2 students and at least 4 cars per class. The car bases are reusable by the next team.

841263 Assembled Car Base $25.95

**KELVIN® “Eggsellent” Car Base Kit**

Make your own base. Includes (4) ball bearing wheels, (2) axles cut to size, (4) end caps and a drawing of the wood blank (wood blank not included).

841264 Car Base Kit $12.95

**Low-Friction Ballbearing Wheel**

1-7/8” dia. For the KELVIN® “Eggsellent” Adventure Unit or other projects.

390735 ... $1.95 or $1.45 ea./50+

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Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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Includes a 5 ft. Long Launching Track!

Elastic Band Crasher is useful for:
- Energy Absorbing Testing
- Designing Safety Features
- Modeling Safety Systems

KELVIN® Krasher™
Design safety restraints (like bumpers and air bags) that keep an egg intact in a student-built vehicle after an impact of up to 35 mph. Includes 5 ft. launch track, giant elastic band propulsion system and manual with vehicle plans.
840672  KELVIN® Krasher™ - Allow $40 for Oversized Shipping $395
840820  KELVIN® Krasher™ 8 Foot Track Extender $195
390565  Replacement Elastic, 50 ft. (Cut to Size) $49.95

KELVIN® Krasher™ Complete Package
This package includes: KELVIN® Krasher™ above (#840672), Odyssey Impact Analyzer (#841604) and a Computer with LCD Monitor.
841637  $2,495

KELVIN® Odyssey® Vehicle Impact Challenge
This activity will challenge students to design, build and test a bumper system for a crash test vehicle that will minimize the impact and recoil force created by a head-on collision into a test wall. Students will test a wide variety of materials and designs as they attempt to reduce the impact forces found in a vehicle collision. It allows students to perform crash tests just like automobile manufacturers conduct. The software will monitor and display a curve which indicates the impact and recoil forces present during the crash test.

Students will attempt to lower the impact and recoil forces through several tests. The maximum values for impact and recoil forces will also be displayed in real numbers. This activity was designed by elementary teachers. Included is a comprehensive activity book for all subject in the elementary curriculum.
841604  Elementary Challenge $995
841623  Elementary Challenge Complete Package with PC/LCD Display $2,495
841606  Middle/High School Challenge $995
841625  Middle/HS Challenge Complete Package with PC/LCD Display $2,495
841837  Challenge with Built-In Timing $1,275
841838  Challenge Complete Package with Built-In Timing and PC/LCD Display $2,795

Challenge includes:
- Data Acquisition Interface w/ USB Port
- Vehicle Impact Software (Compatible with Win XP and Win 98 SP2)
- USB Computer Cable
- [1] Sensors with a 6 ft. long Cable Assembly
- Impact Test Wall
- Impact Test Vehicle with Wheels
- [2] Bumper Bases with Velcro Weight
- Teacher’s Manual & Student Worksheets
- Workstation Sign

More Details Available Online at www.kelvin.com
Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

**KELVIN® Vehicle Test Station**
Help your students understand the use and importance of “testing” in the engineering and design process with KELVIN®’s Vehicle Test Station. This unique product will test a vehicle’s speed, torque and climbing ability, helping your students to optimize their design solutions.

The LED dynamometer will visually show the drive wheel speed. The more LEDs lit, the faster the wheels are turning. The gram scale will measure the torque of the vehicle in grams or Newtons. The adjustable ramp can be set at specific angles to measure the climbing ability of the vehicle. Batteries and vehicles not included.

842079  Vehicle Test Station ........................................ $195 or $175 ea./3+

**Rubber Band Powered Cars**
Using cardboard, dowels, plastic plates, and rubber bands, students can build their own cars, and learn in a direct way the engineering concept of optimization by testing different sized rubber bands and different diameter plates as wheels. 56 pg. Guide.

651663 .......... $9.95 or $8.95 ea./10+

**KELVIN® Auto Safety Design 1**
Design and test safety systems that protect egg passengers during crash simulations.

Module includes:
- Kelvin Krasher
- [3] Car Bases
- DesignGrid Cardstock
- Balloons
- Bubble Wrap
- 10cc Syringes
- Plastic Tubing

841680  ELM, MS, HS ....... $695

**KELVIN® Auto Safety Design 2**
Students use sensors to gather data about crash impact and interpret computer graphs. Requires Auto Safety Design 1.

Module includes:
- Krasher Vehicle
- Computer Interface
- Software
- Kel-Timer Jr.
- Sensor Holders

841702  Level: ELM, MS, HS ....... $995

**KELVIN® Auto Safety 1 & 2 Combo Deluxe Package**
With a PC & 17” LCD Monitor ........................................ $2,945

**Balloon Powered Cars**
There is more to this project than just making an inflated balloon move a car. Engineering involves designing a way to support the balloon and get it to work consistently. Match the power requirements of the car with the right balloon. Nozzles can be designed and tested.

651659 ................................................... $9.95 or $8.95 ea./10+

**“Build A Program” Engineering Mini Modules**
A New Approach to Organizing Technology Modules & Programs

**KELVIN® Educational**
Test Your Vehicle’s Speed, Torque and Climbing Ability!
KELVIN® Raceway Vehicle and Track Starter Kit
Engineer a car that can propel itself around the oval track without outside assistance! The car needs to navigate the track smoothly without a steering mechanism and in the shortest amount of time.

The Starter Kit comes with the KELVIN® Raceway Oval Track, 4 Raceway Vehicle Car Kits, and a Raceway Vehicle Booklet.
841798 Raceway Vehicle and Track Starter Kit ........................................ $195

KELVIN® Raceway Vehicle Car Kit
Kit includes wood, wheels, axles, motor, wire, switch, gears, battery holder, miscellaneous hardware and instructions.
841827 Raceway Vehicle Car Kit ........................................ $7.95 or $6.95 ea./10+

KELVIN® Raceway Vehicle Bulk Pack
Bulk Pack includes 15 Car Kits, 1 Instruction Sheet and 1 Vehicle Booklet.
841799 Bulk Pack for 15 Students ............................................................ $99.95
As low as $6.66 per student

KELVIN® Add-On “Figure-8” Raceway Parts
Parts for creating a figure-8 race track. Requires #841798.
841826 .................................................................................................. $175

KELVIN® Raceway Booklet
The Raceway Booklet Table of Contents includes:
  • Parts Lists
  • K2 Truck Design
  • Classic Mustang Car Design
  • Classic Camaro Car Design
  • Designing Paper Vehicle Bodies
  • Folding Directions For All Included Vehicle Designs
  • Race Directions
  • Race Bracket
  • Adding 4-Wheel Drive
  • Optional Vacuum Form Vehicle Body Design
  • Gear Placement
  • Vehicle Wiring Directions
  • Chassis Layout
  • Cutting the Chassis and Attaching it to the Vehicle
  • Racer Evaluation Sheet
  • Race Time Calculation Sheet
  • Post Race Graph
  • Troubleshooting

652346 Raceway Booklet .......................................................... $6.95 or $5.95 ea./10+

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.
Design A Vehicle That Will Climb Over Obstacles!

**KELVIN® Monsters™ Vehicle Design Challenge**
Features an 8 ft setup with obstacles track plus built-in trays for wood, stones etc. (designed for easy storage). The track must be powered with a KELVIN® Power Supply (DC) to move from points A to B at the end of the track, using overhead wires. Teachers may elevate the track on one end to increase the climbing challenge of the truck.

Students design trucks from basic kits available from KELVIN®, and work in teams or individually to design and construct springs and a propulsion system. They can then compete in the newest engineering challenge. Track assembly required by the teacher. Design Challenge includes Obstacle Track and [2] Individual Kits. Requires a power supply (see below).

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<tr>
<th>Item Code</th>
<th>Description</th>
<th>Price</th>
<th>Details</th>
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<tr>
<td>841675</td>
<td>Monsters™ Vehicle Design Challenge w/ Track and [2] Kits</td>
<td>$195</td>
<td>$19.95 or $18.95 ea./10+</td>
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<tr>
<td>841676</td>
<td>Kit - U-Desgn™</td>
<td>$18.95</td>
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<tr>
<td>841677</td>
<td>Bulk Pack of 9 Kits</td>
<td>As Low As $18.30 Per Kit</td>
<td>$165</td>
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<tr>
<td>841051</td>
<td>Kel-K.P.S.™ #100 Variable Power Supply - see pg. 279 for more info</td>
<td>$125</td>
<td></td>
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<tr>
<td>841386</td>
<td>Kel-KPS™ #102 Digital Display Power Supply - see pg. 279</td>
<td>$295 or $275 ea./3+</td>
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<tr>
<td>841387</td>
<td>Kel-KPS™ #103 Dual Digital Display Power Supply - see pg. 279</td>
<td>$395 or $375 ea./3+</td>
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</tr>
</tbody>
</table>

**KELVIN® Spring Maker**
Wind your own springs with KELVIN®’s Spring Maker™ and learn about math. The Spring Maker™ creates several different thicknesses of springs to use with your cars, machines and inventions. In addition, a special Power Point presentation covers spring design, manufacturing and calculation and measurement of spring rate. It also includes student activity to manufacture spring scale.

System includes: Spring Winder, Table Metal Rods, Student Activity and Power Point Presentation. Can be mounted in a table vise.

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>841345</td>
<td>Spring Maker System™</td>
<td>$125</td>
</tr>
<tr>
<td>390982</td>
<td>Add. Rod Pack for Making Springs</td>
<td>$14.95</td>
</tr>
</tbody>
</table>

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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KELVIN® Educational

Create, Build and Experiment with Vehicle Design

KELVIN® Foam Penny Racer™
Teach the basic concepts of physics through design engineering. The KELVIN® Penny Racer™ and Gravity Track allows young children to create, build and experiment with vehicle design variables, while learning about forces, gravity, weight, motion, momentum and friction.

Students are asked to create a foam vehicle that will carry a minimum of ten pennies down an inclined ramp. Students will then gather a variety of vehicle performance data including speed and distance traveled as pennies are added and removed from the vehicle, as well as the effects of changing ramp heights. The kit includes foam block to shape, wood chassis, wheels, axles and instructions. Ideal for elementary and middle school students.

842034 Foam Car Kit .................................................... $6.95 or $5.95 ea./10+
842038 Bulk Pack of 20 Car Kits ........................................ As Low As $3.49 Per Kit $69.95

KELVIN® Penny Racer Lab
842039 ........................................................................................ $295

KELVIN® Penny Racer Gravity Track 5 ft. long
842033 .............................................................................................. $99.95

KELVIN® EggHead Pilot™
Bring in your empty foam egg carton and, with a few provided parts, drive your own EggHead Pilot™ vehicle! We provide the wheels, axles, propeller, wood, straws and rubberband. Requires use of hot glue gun.
841919 Kit ........................................ $5.95 or $4.95 ea./10+ or $4.45 ea./25+

KELVIN® Egg Roll Motor Kit™
Turn trash into a toy! Bring in your empty foam egg carton and transform it into a student-designed vehicle! We supply the parts, including wheels, axles, motor, switch, pulley, wood, straws and tubes. Requires use of hot glue gun and simple soldering.
841959 Kit ........................................ $7.95 or $7.45 ea./10+ or $6.95 ea./25+

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**KELVIN® E-Road™ Electric Road Track**

Design and build an electric dragster that runs on the E-Road™. Students can test to see which dragster is the fastest to the finish line. Put 2 or 3 tracks together to extend the track length to 16 or 24 ft. Metal springs provide electricity from the metal rails. Includes an assembled 8 ft. long track and [2] car kits.

- **840999** Allow $40 for Oversized Shipping ............................................ $199
- **841617** E-Road™ Connector Kit ................................................................. $29.95
- **841051** Kel-KPS™ 100 Variable Power Supply ........................................... $125

**E-Road™ High Output Power Supply**

10A, 0-30V power supply with Current and Voltage Meters. Use for 72 ft. track extension.

- **282454** ........................................................................ $295

**KELVIN® E-Road™ Package**

Includes: [3] E-Road™ Tracks (extend track to 24 ft.), Track Connection Kit, 2-Lane Kel-Timer™ Motion Timer, High Power 10 AMP Power Supply and [10] E-Road™ Car Kits.

- **841101** Allow $125 for Oversized Shipping ............................................. $1,095

**KELVIN® E-Road Package with Class View™ Timer**

The ClassView™ System includes: a Master Controller for Race Start, a Reaction Controller for each lane, High Current Power Supply, 72 ft track (in 8 ft sections) and [50] Bulk Pack Car Kits.

- **841566** Allow $125 for Oversized Shipping ................................................ $2,195

**KELVIN® E-Road™ Dragster**


- **841587** Kit ........................................ $5.95 or $4.95 ea./10+ or $4.45 ea./25+ $4.45
- **841588** Bulk Pack for 25 Students ............................................................... $99

**KELVIN® E-Road™ Experimental Car**


- **841000** Kit ........................................ $6.95 or $6.45 ea./10+ or $5.95 ea./25+ $5.95
- **841589** Bulk Pack for 20 Students ............................................................... $99

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**KELVIN® ClassView™ Timer Features:**

- **TIME:** 1/1000 Second
- **RESPONSE TIME:** Dual
- **SPEED:** MPH, KPH
- **CLASS VIEW:** Large super bright 7 segment 1” character height LED displays. Ideal for whole class to view the competition results.
- **MONITOR:** 1- or 2-lane monitoring. Display speed, race time, response time and distance simultaneously.
- **REACTION PRACTICE MODE:** 2 modes - normal (racing mode) and practice (test response time). Manual/automatic racing modes.
- **CONTROLS:** Master controller for race start. Two other individual hand-held controllers for each lane.
- **CHRISTMAS TREE DISPLAY:** High-power LED based: A true random Christmas tree sequencer. Time: display time is 1/1000 sec.
- **SPEED:** Selectable MPH and Km/H speed calculations and display. User selectable distance setting.
- **SENSORS:** Optical infrared, non-contact sensors for start/finish gates
- **CAR STAGING:** Built-in car staging and testing.
- **TWO WINNER MODES:** Select winners by race time only or race time and response time.
- **USB INTERFACING:** Built-in USB port for connecting to PC computer and download the results of each race (future optional software).
- **SENSOR CABLE:** Can be used for a 90 foot long race track.
- **POWER SUPPLY:** With UL approved wall adapter.
- **HOUSING:** Strong metal enclosure with baked paint finish. 15.5” wide x 11 3/4” x 2” deep.
- **STAND:** A tripod stand (height adjustable) is also included.

---

**KELVIN® Kel-Air™ Electronic No CO2 Dragster Launcher System with Class View™ Timer**

This package includes a ClassView™ Timer with Power Supply, No CO2 Electronic Launching System, Start and Finish Sensor Gates, a 24 ft. long Track (3 sections of 8 ft. long), Compressor and [50] Bulk Pack Car Kits. Sensors and wiring are pre-mounted.

841564  Allow $350 for Oversized Shipping  $2,295

---

**KELVIN® E-Road Package with Class View™ Timer**

This package includes a ClassView™ Timer with High Current Power Supply, a Master Controller for Race Start, a Reaction Controller for each lane, 72 ft track (in 8 ft sections) and [50] Bulk Pack Car Kits.

841566  Allow $125 for Oversized Shipping  $2,195

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**CARS**

**Dazzling Vehicle Designs!**

**Paasche H-Set Airbrush Set**
Set includes: Single Action Airbrush, Color Mixing Cup, 1oz Bottle Assembly, 3oz Bottle Assembly, Bottle and Cap, Color Adjusting Part/Tip for Small, Medium and Broad/Heavy Patterns, Hangar, Hex Wrench, Wrench, 6 ft. Air Hose, air caps, booklet and Parts Sheet.

281930 Airbrush Set ................................................. $89.95

**Paasche Single Action Hobby Airbrush Kit**
Kit includes: single action airbrush, two 1/2 oz bottle assemblies, 6" hp-1/8" air hose, v-62 wrench, a-34 hanger, and an airbrush lessons book. Requires air compressor or aerosol can (below).

281928 Airbrush Kit ................................................. $74
281929 Aerosol Pressure Tank Can, 15 oz. ............ $14.95

**How To Use An Airbrush**
Create great airbrushing effects on different plastic model types.

651839 Book, 96 pgs. .... $24.95

**Economy Spray Booth**
Designed to reduce both the mess & hazards associated with using aerosol sprays, spray guns and airbrushes. Booths effectively collect the overspray and reduce the fumes. Conveniently angled 15"x20" work surface for flat or 3D objects. Includes [1] 180CFM fan and a three-stage filter system. Equipped with a built-in exhaust port for external venting (requires a 4" dryer hose - not included).

281924 Economy Model Spray System ......................... $295
281925 Replacement Spray Guard Hood .................... $19.95
281926 Spray System Tray ........................................... $32.95

**Filter Pads Pack**

**Original Paint Stripper Kit**
The solution to drawing straight and dazzling lines. Kit includes one stripper with eight interchangeable wheels for eight different line widths from 1/64" through 1/4". Complete with 1/2 oz. bottle. Use with oils, acrylics or watercolors.

281931 Paint Stripper Kit ............................................ $39.95

**Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.**

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Learn How To Keep A Small Gas Engine Running

Small Gas Engines Lab
Open the hood of any car or truck and you'll see a confusing tangle of mechanisms, wires, hoses, etc. What do they do? How do they work? Students can learn about the different systems that make gas engines work with this lab that includes tools and a small gas engine. Hands-on activities include assembly and disassembly of a small gas engine. In addition, several software programs give students a tutorial of the systems of gas engine. Lawnmower not included. Grades 8-12.

Lab includes:
- 3.5 HP Small Gas Engine (Details below)
- Briggs & Stratton Tool Kit
- Tachometer
- Test Light
- Compression Gauge
- Honing Stones Set
- Spark Plug Thread Chaser
- Piston Cutter/Blade
- Tutorial Software Packages
- Engine Tune-Ups Software
- Small Gas Engines Book
- Briggs & Stratton Service Manual
- Lesson Guide
- Workstation Sign

840770 Lab .............................................. $1,495
420376 Workstation Sign ........................ $19.95

Briggs & Stratton Basic Tool Set
430127 .................................................... $495

Piston Ring Expanders
500034 [A] 1-1/4 to 2-1/4 in. .................................. $7.95 or $7.45 ea./3+
500035 [A] 2 to 4 in. ........................................ $12.95 or $11.95 ea./3+

Piston Ring Compressor
2 in. deep with a 1-3/4 to 3-1/2 in. capacity. Includes an Allen wrench.
500033 [B] .................................................. $6.95 or $6.75 ea./3+

Piston Groove Cutter & Cleaner
Limits cut depth from 2 to 3 in. Side flanges for slotted pistons, 5-pt. grooving, and 1-pt. trimming, spring/ball ratchet alignment.
500031 [C] .................................................. $22.95 or $20.95 ea./3+
500032 Blade Only ....................................... $5.95 or $5.45 ea./3+

Small Cylinder Ridge Reamer
Expands small engine cylinders from 2 to 3 in. dia.
500311 [D] .................................................. $37.95 or $34.85 ea./3+
500312 Blade Only ....................................... $2.25 or $1.95 ea./3+

Small Cylinder Gauge
500028 [E] .................................................. $79.95 or $74.85 ea./3+

Small Cylinder Hone
500029 [F] .................................................. $18.95 or $16.95 ea./3+
500030 Stones Only ...................................... $4.95

Small Valve Lapper
500039 ...................................................... $3.95

Valve Spring Compressor
500040 ..................................................... $11.75

Split Valve Spring Keeper
500038 ..................................................... $5.25

Ignition Tester
For evaluating the performance of small gas engines.
500041 ..................................................... $14.95 or $14.45 ea./3+

Starter Clutch Wrench
500042 ..................................................... $16.95 or $15.95 ea./3+

Micrometer Adjust Torque Wrench
Provides 0-800 inch pounds or 0-90 Newtons of torque. 3/8 in. square drive.
500045 ..................................................... $39.95 or $37.95 ea./3+

Compression Tester
Measures cylinder compression from 0-200psi.
500056 ..................................................... $95.95 or $89.85 ea./3+

Tachometer
Has a range of 100-400 rpm.
910054 ..................................................... $145
**KELVIN® Kel-Air™ Electronic No CO2 Dragster Launcher System**


841564 ★........................................................................................................$2,295

Additional Hand Controllers
851518 Blue/Red/Yellow $30

★ Allow $350 for Shipping in the Contiguous United States.

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**KELVIN® No CO2 Dragster Pre-Drilled Kits with BOTH Axle and Air Input Holes**

Includes: 10 in. L wood blank with pre-drilled axle holes & air input holes (3 in. deep). Also includes wheels, axles, straw, screw-eyes and washers.

842378 Kit with 10 in. L Blank .............................................$4.25 or $3.75 ea./10+
842380 Bulk Pack of 50 Kits with 10 in. L Blanks....................$3.50 Per Kit $175

**KELVIN® No CO2 Dragster Pre-Drilled Kits with Air Input Hole ONLY**


841091 Kit with 7-1/2 in. L Blank .............................................$2.95 or $2.75 ea./10+
840917 Class Pack of 10 Kits with 7-1/2 in. L Blank ..................$26.95
841093 Kit with 10 in. L Blank .............................................$3.45 or $3.25 ea./10+
840918 Class Pack of 10 Kits with 10 in. L Blank ......................$27.95
841423 Bulk Pack of 50 Kits with 10 in. L Blanks ......................$2.90 Per Kit $145

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**KELVIN® No CO2 Pre-Drilled Dragster Blanks with BOTH Axle and Air Input Holes**

Blanks can now be purchased with pre-drilled axle and air input holes. Axles holes will fit plastic straw bushings used with traditional 1/8 in. steel axles. These blanks are perfect for anyone that does not have the equipment to drill perpendicular axle holes on the dragster’s sides.

970386 10 in. L Blank, 50/pkg. .................................................$105

**KELVIN® No CO2 Dragster Blanks - Pre-Drilled with Air Input Hole ONLY ★**

930691 7-1/2 in. L x 3/4 in. W x 1/4 in. Front H x 1-1/4 in. Rear H, 50/pkg. ..................$55
930690 10 in. L x 1-1/4 in. W x 1/4 in. Front H x 1-1/4 in. Rear H, 50/pkg. ..................$75

**KELVIN® No CO2 Dragster Blanks with NO HOLES DRILLED - DRILLING REQUIRED ★**

Blanks are to be drilled with teacher supervision. ★

970218 7-1/2 in. L x 3/4 in. W x 1/4 in. Front H x 1-1/4 in. Rear H, Bass, 50/pkg. ........$65
390556 7-1/2 in. L x 3/4 in. W x 1/4 in. Front H x 1-1/4 in. Rear H, Poplar, 100/pkg. ....$75
390555 10 in. L x 1-1/4 in. W x 1/4 in. Front H x 1-1/4 in. Rear H, Poplar, 100/pkg. ...$115

Available options include Blank Drill Jig (970046 for 7-1/2 in. Long Blank, $19.50 and 970047 for 10 in. Long Blank, $19.50) and Air Input Hole Drill Set (950300, [4] Drill Bits / Drill Stop, $29.95).
KELVIN® Educational

Used by many schools in the U.S.A. for “Project Lead the Way”

KELVIN® Kel-Air™ Original No CO2 Dragster Launcher
Eliminates the need for CO2 cartridges! An economical and easy to use 1 or 2 lane system; ideal for multiple launches. Compressed air, delivered in equal amounts, launches vehicles safely and accurately. The No CO2 Car™ has greater design flexibility and uses less wood for body design. A portable air compressor is required. Grades 6-12 with Supervision.

840814 Kel-Air™ Launcher ............................................ $275
500027 Portable Air Compressor with Built-In Air Tank .............. $175
391031 Replacement Spool Valve with O-Rings for #840814 ........ $45

KELVIN® Kel-Air™ Electronic No CO2 Dragster Launcher
For 1 or 2 lanes. Compressed air will launch vehicles safely and economically when the hand-held controllers are pressed. CO2 cartridges are NOT used. The interface box translates the signal from the hand-held controllers and electrically activates the launch mechanism. Features built-in circuitry for independent launching. Includes electric air launch box, electronic launch controller interface, [2] hand controllers, power pack and complete instructions. Can be used with the Kel-Timer™ and ClassView™ Timer. Requires two portable air compressors.

Kel-Air™ Electronic Launch System
851367 ........................................... $695
500027 Portable Air Compressor with Built-In Air Tank .............. $175

KELVIN® Kel-Air™ No CO2 Dragster Launcher
The new and improved launcher has an updated look and enhanced pneumatic valve and controls. Features a launch switch that sends vehicles screaming down the track under the power of compressed air (never CO2). Requires portable air compressor (#500027, see below). Optional track (#840957).

841985 Kel-Air™ No CO2 Dragster Launcher ............................................ $495
500027 Portable Air Compressor with Built-In Air Tank .............. $175

KELVIN® Kel-Air™ No CO2 Dragster System
This complete package includes: Kel-Air™ CO2 Eliminator (#841985), 24 ft. L Kel-Air™ No CO2 Track (#840957), Kel-Timer™ Motion Timer, [10] Kel-Air™ No CO2 Dragster Kits with 10 in. L Pre-Drilled Blanks, Monofilament Line, portable air compressor, sensor mounting stands, instructions. Allow $350 for Shipping by Trucker.

841100 ........................................................................................ $1,495

KELVIN® No CO2 Racing Track
Total Length is 24 Feet!
12 in. wide track x 24 ft. in length. Arrives in 3 sections, each 8 ft. long. Use on table top or floor. Requires a Kel-Air™ No CO2 Launcher (#840814, 841985 or 851367). Allow $350 for Shipping in the Contiguous United States.

840957 .................................................. $395

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required. www.kelvin.com • KELVIN®, 280 Adams Blvd., New York 11735, USA • Copyright © Kelvin L.P. • Prices in this catalog represent discounted pricing for educational institutions.
Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

KELVIN® CO2 Pre-Drilled Dragster Blanks with BOTH Axle and CO2 Input Holes
Blanks can now be purchased with pre-drilled for axles and CO2 cartridge. Axles holes will fit plastic straw bushings used with traditional 1/8 in. steel axles. These blanks are perfect for anyone that does not have the equipment to drill perpendicular axle holes on the dragster's sides.

970387  12 in. L, 50/pkg. .............................................. $130

CO2 Cartridges We only ship CO2 cartridges to the Continental U.S. via Ground Service.

500025  8 Gram,10/pkg. ................................................... $4.85 or $4.36 ea./10+
500053  w/ Safety Cap,10/pkg. ...................................... $5.95 or $5.35 ea./10+

KELVIN® CO2 Dragster Pre-Drilled Kits with BOTH Axle and CO2 Input Holes
Includes: 12 in. L wood blank with pre-drilled axle holes and CO2 input holes. Also includes wheels, axles, straw, screweyes and washers. CO2 Cartridge sold separately.

842377  Kit with Blanks Pre-Drilled................................ $5.25 or $4.95 ea./10+
842379  Bulk Pack of 50 Kits with 12 in. L Blanks .......... $3.58 Per Kit $179

Pre-Drilled Pine Blank (#390362 with CO2 Input Hole ONLY)
841096  KIT .......................................................... $3.75 or $3.25 ea./10+
841422  Bulk Pack of 50.............................. As Low As $2.60 Per Kit $130

Pre-Drilled Bass Blank (#970222 with CO2 Input Hole ONLY)
842289  KIT .......................................................... $4.50 or $3.95 ea./10+
842357  Bulk Pack of 50.............................. As Low As $3.00 Per Kit $150

Pre-Drilled Balsa Blank (#390347 with CO2 Input Hole ONLY)
841095  KIT .......................................................... $5.75 or $4.95 ea./10+
842358  Bulk Pack of 50.............................. As Low As $3.60 Per Kit $180

KELVIN® C02 Pre-Drilled CO2 Dragster Blanks
with BOTH Axle and CO2 Input Holes ONLY
Blanks are 1-1/2 in. wide with a front height of 3/4 in. and a rear height of 2-3/4 in.

Pre-Drilled Pine Blank (Pre-Drilled with CO2 Input Hole ONLY)
390363  8 in. Long, 1/pkg. .............................................. $1.50 or $1.30 ea./10+
390362  12 in. Long, 1/pkg. .............................................. $1.90 or $1.70 ea./10+

Pre-Drilled Bass Blank (Pre-Drilled with CO2 Input Hole ONLY)
970222  12 in. Long, 1/pkg. .............................................. $2.80 or $2.49 ea./10+

Pre-Drilled Balsa Blank (Pre-Drilled with CO2 Input Hole ONLY)
390347  12 in. Long, 1/pkg. .............................................. $3.95 or $3.75 ea./10+

Pre-Drilled Foam Blank (NO HOLES)
390348  12 in. Long, 10/pkg. .............................................. $4.95 or $4.75 ea./10+

BULK PACKS include the essentials: wheels, axles, straws, screw eyes, washers, instructions, no blank or a blank choice of pine, bass, or balsa. Does not include CO2 cartridges.

BULK PACKS include the essentials: wheels, axles, straws, screw eyes, washers, instructions, no blank or a blank choice of pine, bass, or balsa. Does not include CO2 cartridges.

BULK PACKS include the essentials: wheels, axles, straws, screw eyes, washers, instructions, no blank or a blank choice of pine, bass, or balsa. Does not include CO2 cartridges.

CO2 Cartridges We only ship CO2 cartridges to the Continental U.S. via Ground Service.

500025  8 Gram,10/pkg. ................................................... $4.85 or $4.36 ea./10+
500053  w/ Safety Cap,10/pkg. ...................................... $5.95 or $5.35 ea./10+

Pre-Drilled Bass Blank (Pre-Drilled with CO2 Input Hole ONLY)
842289  Kit .......................................................... $4.50 or $3.95 ea./10+
842357  Bulk Pack of 50.............................. As Low As $3.00 Per Kit $150

Pre-Drilled Balsa Blank (Pre-Drilled with CO2 Input Hole ONLY)
841095  KIT .......................................................... $5.75 or $4.95 ea./10+
842358  Bulk Pack of 50.............................. As Low As $3.60 Per Kit $180

As Low As $26 Per Student

Pre-Drilled CO2 cartridge hole

Pre-Drilled Axle Holes

As Low As $90¢ Per Kit
Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

KELVIN® HotShot Raceway™
CO2 Dragster Launcher
Easy to store and very portable! Carry it to competition sites. The self-contained mechanism doesn’t have dangerous spring tension hammers that can cause injury. Works with the CO2 Racing Track, #841097, see below. Grades 6-12 with supervision.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>840710</td>
<td>1-Lane HotShot Raceway™</td>
<td>$295</td>
</tr>
<tr>
<td>840711</td>
<td>2-Lane HotShot Raceway™ (Shown)</td>
<td>$375</td>
</tr>
</tbody>
</table>

Research, Safety and Design of CO2 Dragsters Lab
This start-up package includes all of the supplies that students will need to design, build and launch the CO2 dragster and perform vehicle safety testing. Hands-on activities include adding safety features to the vehicle’s design so that students can study the effects of seat belts, bumpers, and airbags on “egg” passengers (not included). Problem-solving is used to evaluate why some designs were better for the ‘passengers’ than others. Students can compete to see which vehicle is safest, travels the farthest or fastest. Grades 6-12.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>840764</td>
<td>................................................................</td>
<td>$1,795</td>
</tr>
</tbody>
</table>

KELVIN® CO2 Racing Track™
Ideal for HotShot Raceway™ Dragsters and other CO2 dragsters. This 12 in. wide track measures an incredible 72 ft. in total length! Arrives in 9 sections, each 8 ft. long. Works on table top or floor. Use with monofilament line and screweyes to keep your dragster on the track. Allow $400 for Shipping by Trucker.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>841097</td>
<td>CO2 Racing Track™ (Shown Above)</td>
<td>$795</td>
</tr>
<tr>
<td>330344</td>
<td>Monofilament Line, 260 yds.</td>
<td>$3.95</td>
</tr>
</tbody>
</table>

Screweyes
Place on the bottom of dragsters to use with Monofilament Line to keep dragsters straight on the track.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>390346</td>
<td>9/64 in. I.D. x 9/16 in. L Shank, 100/pkg.</td>
<td>$2.95</td>
</tr>
<tr>
<td>391086</td>
<td>7.4mm I.D. w/ 9/32 in. L Shank fits 1/4 in. Axle, 100/pkg.</td>
<td>$4.95</td>
</tr>
<tr>
<td>390933</td>
<td>9/32 in. I.D. with 5/8 in. L Shank, 100/pkg.</td>
<td>$9.95</td>
</tr>
</tbody>
</table>
KELVIN® K1™ Balsa CO2 Racing Car
Design a race car that uses CO2 cartridges (sold separately and shipped ground, see lower left). Kits include balsa, wheels, axles, etc. The blanks measure approximately 8-3/8 x 2-1/2 x 2 in. (223mm x 65mm x 50mm). Requires a CO2 Launcher, see page TC31.

**KITS**
- Kit with 8-3/8 in. Long Blank – Pre-Drilled with CO2 Input Hole Only
  - 842016 .............................................................. $12.95 or $11.95 ea./10+
  - Bulk Pack of 10 Kits with 8-3/8 in. Long Blanks – Pre-Drilled with CO2 Input Hole Only
  - 842018 .............................................................. As Low As $9.99 Per Kit $99.95

**BLANKS ONLY**
- 8-3/8 in. Long Blank Pre-Drilled with CO2 Input Hole Only
  - 391245 .............................................................. $6.75 or $5.95 ea./10+
  - 8-3/8 in. Long Blank NO HOLES
  - 391247 .............................................................. $5.75 or $5.45 ea./10+

KELVIN® K2™ Balsa No CO2 Race Car Kit
Design a race car that uses compressed air – no CO2 cartridges! Kits include balsa blank (7 x 2-1/2 x 2 in.), wheels, axles, etc.

**KITS**
- Kit with 7 in. Long Blank – Pre-Drilled with Air Input Hole Only
  - 842017 Kit .............................................................. $12.95 or $11.95 ea./10+
  - Bulk Pack of 10 Kits with 7 in. Long Blanks – Pre-Drilled with Air Input Hole Only
  - 842019 .............................................................. As Low As $9.99 Per Kit $99.95

**BLANKS ONLY**
- 7 in. Long Blank Pre-Drilled with Air Input Hole Only
  - 391248 .............................................................. $6.75 or $5.95 ea./10+
  - 7 in. Long Blank NO HOLES
  - 391246 .............................................................. $5.75 or $5.45 ea./10+

KELVIN® No CO2 Dragsters Modular Lab
Use hand tools to design, build and shape a KELVIN® KelAir™ No CO2 Dragster™. Use problem-solving to evaluate why some designs are better than others. Compete to see which vehicle can travel the farthest or fastest.

**This Lab Includes:**
- EQUIPMENT: KelAir™ 2-Lane No CO2 Launcher, Race Track (24 ft. L, 2-Lane, 3 Sections), Portable Air CompressorProject Parts: Wheels, Axles, Washers, Screweyes, Drill Set

- 841030 No CO2 Lab – Gr. 6-12 .............................................................. $1,195

**TC34**
Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.
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