KELVIN® EDUCATIONAL

**BEAMS & TRIANGLES™**

**STRUCTURE MODELING SYSTEM**

Build Working Models like:
- Vehicles • Bridges • Houses
- Towers • Windmills • Cranes
- Playgrounds • Inventions

**KELVIN® Beam s & Triangles™ Building Pack**
- [10] 3/16 x 12 in. Dowel Rods
- [20] 2-1/2 in. Cardstock Wheels
- [20] 1-1/2 in. Cardstock Wheels
- [20] Cardstock Axle Mounts
- [50] Cardstock Triangles
- [2] Syringes
- [1] 12 in. Vinyl Tubing

COMING SOON .................................................................

**KELVIN® Beam s & Triangles™ Building Pack PLUS Tools**
Entire Contents of the Building Pack above PLUS:
- [1] Gear Jig
- [1] Joint Jig
- [1] Cutting Jig
- [1] Glue
- [1] Hacksaw

COMING SOON .................................................................

**KELVIN® Beam s & Triangles™ Design Kit**
Create structures, vehicles and machines using student made frames, gears, levers, pulleys, wheel and axles. Give your students the opportunity to design, plan, measure, construct and test their ideas with working models. Assembly is required so students will have to drill, cut and glue their projects. Requires the KELVIN® Gear Jig (see below).

<table>
<thead>
<tr>
<th>Kit Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>842307</td>
<td>Kit</td>
<td>$9.95 or $8.95 ea./5+</td>
</tr>
<tr>
<td>842308</td>
<td>Bulk Pack for 10</td>
<td>As Low As $6.99 Per Kit $69.95</td>
</tr>
</tbody>
</table>

**KELVIN® Gear Jig**
Use this double-sided jig to build different gear combinations. Ideal for windmills, cars, machines, toys, etc. On one side build: 4-, 8- or 16-teeth gears and on the other side build 6-, 12- or 24-teeth gears.

<table>
<thead>
<tr>
<th>Kit Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>990197</td>
<td>5/pkg</td>
<td>$9.95</td>
</tr>
</tbody>
</table>

**Joint Jig**
This combo jig holds up to 3/8 x 3/8 in. beams or dowels in place at 45° or 90° angles as they are glued and drying.

<table>
<thead>
<tr>
<th>Kit Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>390444</td>
<td>5/pkg</td>
<td>$21.95</td>
</tr>
</tbody>
</table>

**Cutting Jig**
Cuts 30°, 45° or 90° angles in beams or dowels. Works with 3/8 x 3/8 in. beams.

<table>
<thead>
<tr>
<th>Kit Code</th>
<th>Description</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>390447</td>
<td>.............</td>
<td>$11.95 or $11.35 ea./3+</td>
</tr>
</tbody>
</table>

**Gears, levers, pulleys, wheel and axles.**

**As Low As $6.99 Per Kit $69.95**

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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KELVIN® Tools & Jigs Set

840680  Set  .................. $325

KELVIN® Beams & Triangles™
Cardstock Triangles & Axle Mounts
Enough pre-printed, 8-1/2 x 11 in. sheets to cut out 2,100 triangles or 900 axle mounts.

420334  Triangles, 30 Sheets  .................. $7.95
390449  Axle Mounts, 30 Sheets  .................. $7.95
**KELVIN® Educational**

**KELVIN® Educational Beams & Triangles™ Structure Modeling System**

**KELVIN®'s Basic Beams & Triangles™ Consumables Kit**

- [30] Axle Mount Cardstock Sheets
- [30] Triangle Cardstock Sheets
- [50] Beams, 3/8 x 3/16 x 24 in. (60cm)
- [100] Beams, 3/8 x 3/8 x 24 in. (60cm)
- [10] Dowel Rods, 3/16 in. dia. x 36 in. L
- [10] Dowel Rods, 1/8 in. dia. x 36 in. L
- [1,000] Wood Sticks, 1/16 x 3/16 x 5-1/2 in.
- [1] Plastic Tubing, 5 ft. L

840681 Kit ............................................................................................................... $9.95

**KELVIN® Deluxe Beams & Triangles™ Consumables Kit**

- [30] Axle Mount Cardstock Sheets
- [30] Triangle Cardstock Sheets
- [50] Beams, 3/8 x 3/16 x 24 in. (60cm)
- [100] Beams, 3/8 x 3/8 x 24 in. (60cm)
- [10] Dowel Rods, 3/16 in. dia. x 36 in. L
- [10] Dowel Rods, 1/8 in. dia. x 36 in. L
- [1,000] Wood Sticks, 1/16 x 3/16 x 5-1/2 in.
- [1] Plastic Tubing, 5 ft. L
- [100] Cardboard Wheels, 1-1/2 in. dia.
- [100] Cardboard Wheels, 2-1/2 in. dia.
- [40] Spoke Wheels, 1/8 in. Hole
- [24] Pulleys with Tire
- [50] DesignGrid™ Paper Sheets

840972 Kit ............................................................................................................... $29.95

**KELVIN® Basic Beams & Triangles™ Activities Guide & Video**

Activities, sample projects, tips and more.

650511 Guide ........................................................................................................ $9.95

120921 DVD ........................................................................................................ $29.95

**KELVIN® Deluxe Beams & Triangles™  Consumables & Tools Package**

Includes: Deluxe Consumables Kit (#840972), Jigs & Tools Kit (#840680), see pg. D2), Technology Certificates, Instruction Guide & Workstation Sign.

840926 ............................................................................................................... $69.95

**KELVIN®'s Beams & Triangles™ Challenges Your Students Design and Construction Skills!**

Students plan, design, construct, measure and test their products. They also saw, glue, drill and build working models from wood beams, triangles, wheels and glue. Advanced students can motorize prototypes.
**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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### Portable Drafting Board
Smooth drawing surface and folding legs. Measures 24 x 36 in.
- 420355 ........................................ $99

### T-Squares
Hardwood
- 420086 24 in. L-T-Square ...................... $14.95
- 420087 30 in. L-T-Square ...................... $16.95
- 420088 36 in. L-T-Square ...................... $17.95

### Erasing Shield
- 420131 Stainless Steel ......................... 99¢

### Dusting Brush
- 420114 15-1/2 in. L ................................ $5.95 or $5.35 ea./12+

### Scribe Dots
7/8 in. dia., 500/pkg.
- 420207 ........................................ $6.95

### Drafting Tape
7/8 in. dia., 500/pkg.
- 340068 1/2 in. W x 60 yds. .................. $4.45
- 340071 3/4 in. W x 10 yds. .................. $3.95
- 340072 3/4 in. W x 60 yds. .................. $7.25
- 340073 1 in. W x 60 yds. .................. $8.95

### Rulers
6 in. Steel Ruler with Pocket Clip
- 910039 ........................................ $2.45

### 12 in. Plastic Ruler
- 420225 ...................................... $1.25 or 99¢ ea./20+

### 12 in. Steel Ruler
- 910038 .................................... $7.95 or $7.45 ea./10+

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### Digital Calipers
Digitally precise calipers will make reading easy and accurate. Ideal for those new to reading calipers and drafting classes.
- 910062 .......................................... $39.95

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### All-Purpose Template
- 420002 ........................................ $5.95 or $5.45 ea./6+

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### Compass
Bow Style with 10 in. diameter.
- 420066 ........................................ $13.95 or $12.95 ea./3+

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### French Curve Set
- 420089 ....................................... $9.95 or $8.95 ea./10+

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### Flexible Curve Ruler
- 420074 12 in. L ................................ $7.95
- 420077 24 in. L ................................ $11.95

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### Triangular Scales
12 in. L
- 420078 Architect’s, White .............. $7.95
- 420079 Architect’s, Yellow ............. $7.95
- 420080 Mechanical, White ............. $7.95

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### KELVIN® DesignGrid® Paper
Use 17 x 22 in. sheets for thumbnails, sketches, roughs and final drawings. A black grid, in 1/4 in. increments, is printed on one side. 100 sheets.
- 420238 Inch Paper ............................ $29.50

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### Grid Paper
A pad of grid paper with 4 squares per inch. 11 x 17 in., White.
- 420421 50 Sheets .......................... $19.95
Explore Manual & Computer-Aided Drafting

Hands-on activities include designing the interior, exterior and landscape of a house.

**KELVIN® Kubes™**
This activity includes set of 12 KELVIN® Kubes™, 2-D CAD software (Macintosh or IBM), [12] Calipers and a book. $895

420407 Drafting Cubes Only - Machined Aluminum Set, 12 pcs. $495

**Computer-Aided and Mechanical Drafting Modular Lab**
Before a product is produced or a structure built, it must first go through the design process. First you start with a concept, then create thumbnail sketches, working drawings, final drawings, and prototypes to be evaluated. This start-up package features two equally important drafting techniques; manual drafting and computer-aided drafting. KELVIN® Kubes™, three-dimensional (3D) aluminum models, are used by students to draft 3D drawings. CAD software can be used by students to begin experimenting with computer-aided drawing and advanced 2D drawings. As students progress, they will explore computer-aided drafting (C.A.D.) using architectural software. Hands-on activities include designing the interior, exterior and landscape of their dream house. Advanced students can design more elaborate houses. Grades 7-College.

841027 Computer-Aided & Mechanical Drafting Modular Lab w/PC $2,995

**Lab (#841027) Includes:**
- IBM/PC Computer: (DVD Burner/Player, Windows XP, 17 in. LCD Monitor, 11 x 17 in. Color Inkjet Printer)
- KELVIN® Kubes™ Pkg.
- [12] Digital Calipers
- Orthographic Projections Book
- Architecture Software for Basic Architecture
- CAD Software for 2D Drawings
- 3D Home Architecture Software
- 3D Home Interior Software
- 3D Landscape Software
- Lesson Guide
- Workstation Sign

**Actual Size of the Cubes is 2 x 2 x 2 in.**

**Digital Caliper**

★ Can only be sold to schools, instructors & students.★★ Can only be sold to schools in the United States.

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KELVIN® Motor-Powered Dragster Kit
Some gearing principles are utilized in the Motor-Powered Dragster Kit. Bevel gears similar to those used in an automobile change the direction of power in this kit. The kit includes: Pre-Printed Cardstock, Battery Holder, Toy Motor, Gear, Axles, and Wheels.
841323 ........................................... $6.95 or $6.75 ea./10+ or $6.45 ea./25+

KELVIN® Solar Car Kit
The Solar Car Kit relates to energy conservation as well as energy conversion. This kit includes: pre-printed cardstock, encapsulated solar cell, Rubber Band, wheels and axles.
841322 ......................................................................................... $11.95

KELVIN® Swamp Boat Kit
The Swamp Boat Kit has the students work with flotation and propulsion of an aquatic vehicle. Careful construction techniques are required for this activity. This kit includes: Pre-Printed Cardstock, Battery Holder, Toy Motor and Propeller.
841316 .......................................................... $7.95 or $6.95 ea./10+ or $5.95 ea./25+

KELVIN® Mouse Trap Car Kit
Let students practice their engineering skills by building a vehicle that will travel the farthest using a mousetrap as the power source. In this activity students explore, among other topics, energy transformation, friction and safety. Kit includes: pre-printed cardstock, mousetrap, plus KELVIN® mousetrap wheels, front wheels, and axles.
841315 .......................................................... $4.95 or $4.75 ea./10+ or $4.45 ea./25+

KELVIN® Jet Car Kit
In using the Jet Car Kit, students apply Newton’s Laws of Motion. Students will also learn about the principles of construction and design. This kit includes: pre-printed cardstock, balloon attachment, balloon, axles and wheels.
841314 .......................................................... $5.95 or $5.45 ea./10+ or $5.25 ea./25+

KELVIN® Hydraulic & Pneumatic Truck Kit
A wooden frame with gussets provides for strength and hydraulic or pneumatic power transfer in the operation of the dumpster.
841324 .......................................................... $7.95 or $7.45 ea./10+ or $6.95 ea./25+
**KELVIN® Shapes in Paper Kit**
The Shapes in Paper Kit enables students to build a pyramid, a cylinder, a cube and a prism. They learn how these 3-D shapes can be constructed from flat materials, similar to what an engineer might do in designing ductwork or metal cabinetry for industry. The finished products can be used as samples for practicing shading and 3-D renderings.

841318 ............................................. $4.95 or $4.75 ea./10+ or $4.45 ea./25+

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**KELVIN® Geodesic Dome Kit**
In utilizing the Geodesic Dome Kit, the children can build structures and arrange them to build spheres or a model station for an alien planet. Students learn about the construction of geodesic domes as well as the shapes that go into their development. Architectural concepts are also studied.

This kit includes heavy pre-printed cardstock that students can use to build and decorate their geodesic dome according to the criteria and constraints from the teacher.

841321 ............................................. $2.95 or $2.85 ea./10+ or $2.75 ea./25+

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**KELVIN® Egg Drop Design Challenge™**
In this activity, students apply the principles of physics and engineering by designing and testing a container to protect an egg that is dropped from a given height. Mathematical principles will also be used, incorporated in calculating the efficiency of the unit. Kit includes: cardstock, craft sticks, balsa wood strips, high-density foam, bubble wrap, graph paper, isometric paper and instruction guide. Eggs not included.

841339 ............................................. $7.95 or $7.45 ea./10+ or $7.25 ea./25

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**KELVIN® Packaging Design Challenge™**
Students build four different types of boxes. They can decorate these boxes prior to assembly as a design activity. For a design challenge, have students design the product information, promotional words, packaging for a: Soap Box, Jewelry Box, Perfume Box and Game Box. After assembling their box, they design the decoration, logo, UPC code, etc.

This kit includes heavy pre-printed cardstock that students can use to build a box or container and decorate it according to the criteria and constraints from the teacher.

841312 ............................................. $3.45 or $3.25 ea./10+ or $2.95 ea./25+

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See How Far You Can Fling a Ping-Pong Ball!

**KELVIN® Catapult Kit**
With this Student Kit, students can either design their own catapult or build one from the plans that are included. This kit replicates an ancient catapult in which tension could be increased or decreased to alter the tossing distance. Requires hand tools. Catapult base measures 24 in. .

841860 Kit .................................................. $14.95 or $12.95 ea./10+
841863 Bulk Pack of 10 Kits .......................... As Low As $11.50 Per Kit $115

841861 Kit .................................................. $14.95 or $12.95 ea./10+
841864 Bulk Pack of 10 Kits .......................... As Low As $11.50 Per Kit $115

**KELVIN® Trebuchet Kit**
Plans are included in this kit for a miniature trebuchet that can launch a small object across the room. Students can alter the design or use the materials to create an original. This kit depicts another engine of war from Medieval times. Includes 24 in. long wood. Requires hand tools.

841861 Kit .................................................. $14.95 or $12.95 ea./10+
841864 Bulk Pack of 10 Kits .......................... As Low As $11.50 Per Kit $115

**KELVIN® Kre8® Catapult**
Make a mangonel-type catapult that can throw a ping-pong ball. Catapults like this were used to fling objects over castle walls for defense in medieval times. A fun competition that can be held in a classroom.

283660 Kit .................................................. $8.95 or $7.95 ea./5+
283639 Bulk Pack of 20 Kits .......................... As Low As $6.25 Per Kit $125

Find More Kre8® products in the Kre8® chapter.
Large Catapult
Large 18 in. base has a swing arm that can be up to 24 in. long. Includes a ping pong ball. Requires design, drilling, cutting and assembly. Grades 6-12.
841229 Kit ..........................$7.95 or $7.75 ea./10+ or $7.45 ea./25+
841814 Bulk Pack of 24 Kits ..............As Low As $5.41 Per Kit $129.95

Mini Catapult
Features a 7-1/2 in. long base with a swing arm that can be made up to 12 in. long. Includes a ping pong ball. Requires design, drilling, cutting and assembly. Grades 6-12.
841362 Kit ..........................$5.95 or $5.75 ea./10+ or $5.45 ea./25+
841815 Bulk Pack for 24 Students ...........As Low As $4.58 Per Kit $125

Ping Pong Balls
870036, 6/pkg, $2.10

Mini Catapult
Large 18 in. base has a swing arm that can be up to 24 in. long. Includes a ping pong ball. Requires design, drilling, cutting and assembly. Grades 6-12.
841229 Kit ..........................$7.95 or $7.75 ea./10+ or $7.45 ea./25+
841814 Bulk Pack of 24 Kits ..............As Low As $5.41 Per Kit $129.95

Use Kinetic Energy in a Unique Way!

KELVIN® Mousetrap Catapult
Build our mousetrap powered catapult and send ping-pong balls safely flying into the air. The catapult allows the students to adjust the length of the lever arm as well as the stopping angle of the arm’s forward motion.

Students can experiment with trajectories, mechanical advantage and force as they gather and interpret data. Have students compete for distance, accuracy and height as they have hours of fun and learning.

Kit
841882 .....................$11.95 or $10.95 ea./10+ or $9.95 ea./25+
842270 Bulk Pack of 10 Kits  ......................As Low As $8.99 Per Kit $89.95
841883 Bulk Pack of 20 Kits  ......................As Low As $8.49 Per Kit $169.95

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Creative Crane
COMPETITION
An Engineering & Design Challenge

KELVIN® Creative Crane

Your students will design and build a lightweight crane that creatively lifts a variable load from a structure a minimum vertical height of 18 in. with a minimum horizontal clearance distance of 9 in. from the edge of the tower or footprint of the crane. The crane structure may encroach on a 45° angle from the lifting point.

The crane must lift the load at least 6 in. to qualify; the one that lifts the greatest load and meets portfolio/interview requirements showing proper application of the concepts introduced will be deemed the best design. Scores are based on Maximum Load, Team Portfolio and Team Interview.

Standard U.S. pennies are used for weights and counterweights, which must be suspended from the crane. Students design a container to hold the pennies for both weight and counterweight. There are no restrictions except that the container may not be structural and can not rest on the ground.

Kit includes official competition balsa, pulley pack (4 pcs.), DC motor, motor holder, competition guide. Teacher supplies glue (such as hot glue guns or wood glue), thin sheet metal (for block and tackle), nuts and bolts or pins and nails (for pulley axle). Great for Grades 7 and up. NOTE: A DC voltage power source is required (see below).

★ This is NOT a laser cut or pre-designed.

841544 Kit with Balsa .............................................................. $9.95 or $8.95 ea./10+
841692 Kit with Balsa & StikKutter™ ........................ $16.95 or $15.95 ea./10+
841285 Team Class Pack of 6 Kits (No Wood) ........................ As Low As $5.99 Per Kit $35.95
281684 Class Pack w/ 1/8 in. x 1/8 in. x 12 in. Balsa ................................. $44.95
990212 Creative Crane Pulley, 10/pkg. .............................................. $9.95 or $8.95 ea./3+

The original Creative Crane Competition occurs yearly at SUNY Farmingdale where it is judged by Professor Joseph A. Betz, R.A.
**KELVIN® Tower Crane**

The Tower Crane is different from the Creative Crane—the power unit and motor are positioned right on the boom making for easier construction. In this activity, groups of students are asked to use the Engineering Design Process to design, build and test a tower crane that meets certain specifications.

Students will research tower cranes for design input, then break into smaller groups—one group designs the tower while the other designs the boom. The two groups will communicate and cooperate to develop a testable, usable model.

Kit includes: Gear Set, Pulley Set, Creative Crane Pulley, Motor, Motor Holder, Balsa, Wire, Wood Base, and Instructions. **NOTE:** Two power supplies, or a dual power supply (see below) are needed to operate the crane and swing unit simultaneously.

- **841823** Kit .................... $12.95 or $11.95 ea./10+
- **841824** Bulk Pack for 10 Students .................... $99 As Low As $9.90 Per Kit

**Swing Unit Kit**

Besides lifting, a crane may be required to move a load from one point to another. With this kit, students can design a mechanism to allow the boom of their tower crane to swing so that it can lift a load from one spot and place it in another.

Kit includes: 1:100 Gear Motor, Gear Set, Pulley Set, Wood (1/8 x 3 x 12 in.), Wire, and Instructions.

- **841825** Kit .................... $15.95 or $14.95 ea./10+

**KELVIN® StiKutter**

990198 (see pg. 811) .................... $9.95 or $8.95 ea./10+
841430 Additional StiKutter™ Blades, 10/pkg. ....$2.95

**KELVIN® Gear Box Activity**

Learning about gears and what they can be used for (gearing for speed or for power) is an important aspect of many crane and vehicle activities and this kit enables students to do just that. Kit includes: Gear Set, Pulley Set, Creative Crane Pulley, Motor and Motor Holder, Wood, and Instructions.

★ **NOTE:** The activity must be clamped to a table (clamp is not included). The teacher will need to supply: string, glue, screws and a C-Clamp.

- **841810** Kit .................... $8.95 or $7.95 ea./10+
- **841811** Bulk Pack for 20 Students .................... $125 As Low As $6.25 Per Kit

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D12

**Work, Fabricate, Assemble!**

Students can learn about:
- Following Directions
- Assembling a Product
- Simple Machines
- Systems and Sub-systems
- Simple Electrical Circuits
- Basic Wood Fabrication
- Basic Metal Fabrication
- Problem Solving

**KELVIN® Cuss Remediator Kit**
The user loses a coin each time they cuss. The ‘Cuss Remediator’ will drop a coin into a container in a series of steps. Keep in mind that Rube Goldberg® made his drawings as a reaction to technology. They were a linear series of complicated steps to perform a simple task.

The first lever is pulled by someone after a person cusses, thus activating a second lever, which in turn activates a third lever pulling the magnet away from the steel ball (4th step). The steel ball rolls down the ramp tipping the teeter-totter (5th step) and knocking the coin onto the exposed wires (6th step), which in turn activates the buzzer (7th step) thus vibrating the coin into the cup (8th and last step).


**Rube Goldberg® Explorers Team Packs**
The kind of items you'll find in this package include, but are not limited to: ping pong balls, marbles, dowel rods, string, springs, pulleys, gears, plastic spoons, plastic cups, mouse traps, balloons, etc.

- **841300** 1-2 Students .................$19.95 or $18.95 ea./4+ or $17.95 ea./10 or $15.95 ea./16+ or As Low As $19.95 Per Kit $199.95
- **841301** 2-4 Students .................$39.95 or $37.95 ea./3+ or $34.95 ea./6+ or $31.95 ea./9+ or As Low As $39.95 Per Kit $299.95

**Rube Goldberg® Electronics Team Pack**
The kind of items you'll find in this package include, but are not limited to: switches, wire, sensors, battery holders, buzzer, bulbs, bulb holders, magnetic switches, gearbox kit, etc.

- **841302** 2-4 Students .................$39.95 or $37.95 ea./3+ or $34.95 ea./6+ or $31.95 ea./9+ or As Low As $39.95 Per Kit $299.95

**Rube Goldberg® Electronics Class Pack**
4 Electronics Team Packs PLUS a soldering iron, multimeter, wire cutter and gearbox kit.

- **841304** For 8-16 Students ..................$125

**KELVIN® HARD-TO-FIND MACHINE CONTEST MATERIALS**
Since 1989, students have been challenged to participate in their local Rube Goldberg® Machine Contests.

KELVIN® provides the hard-to-find materials students need to supplement their machine’s whether they are using the national design theme or thier own class theme.

**Rube Goldberg® Inventions! Postcards**
30 colorful Rube Goldberg® postcards in one book. Limited Availability.

- **651530** Book, 30 pgs. .....................$14.95

**Rube Goldberg® Inventions**
A great collection of Rube Goldberg®’s splendidly over-complicated inventions, comic strips, editorial cartoons, and sketches along with a biography.

- **651529** Book, 192 pages .....................$24.95

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