



KELVIN® hands on S.T.E.M. projects encourage students to learn by doing as they work with hand tools, power tools, working individually or with friends. Students design, build, test, improve, compete and enjoy the sense of pride and accomplishment.




2024 KELVIN®

Technology Education, Science, Electronics & More
Download catalog PDFs at www.kelvin.com

S.T.E.M.

KELVIN® ENGINEERING IN SCHOOL






Kelvin® Engineering in School S.T.E.M. Link (page 1-11)





The Design of a Simple Machine (page 14-15)




The Design of a Simple Machine (page 14-15)


The Design of a Simple Machine (page 14-15)



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The Design of a Simple Machine (page 14-15)


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ROBOTICS


KELVIN® ENGINEERING IN SCHOOL




For ROBOTICS® Robot and
Kiddie Robot Competition (e.g. 4)




For K'nex®
Autonomous
Vehicle (e.g. 4)




For ROBOTICS® Robot Competition (e.g. 10-12)




For
Temple
and
Obstacle
Race (e.g.
15)




For Science Robot Competition (e.g. 1st-12th)



For
Temple
and
Obstacle
Race (e.g.
15)



For Science Robot Competition (e.g. 1st-12th)



For
Temple
and
Obstacle
Race (e.g.
15)

STEAM
SCIENCE, TECHNOLOGY, ENGINEERING, ARTS, AND MATHEMATICS
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the STEAM (Science, Technology, Engineering, Arts, and Mathematics) curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Science, Technology, Engineering, Arts, and Mathematics. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

ROBOTICS
BUILDING, DESIGNING, AND PROGRAMMING
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the Robotics curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Building, Designing, and Programming. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

SCIENCE
BUILDING, DESIGNING, AND PROGRAMMING
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the Science curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Building, Designing, and Programming. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

ARCHITECTURE & DESIGN
BUILDING, DESIGNING, AND PROGRAMMING
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the Architecture & Design curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Building, Designing, and Programming. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

ELECTRONICS
BUILDING, DESIGNING, AND PROGRAMMING
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the Electronics curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Building, Designing, and Programming. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

POWER & ENERGY
BUILDING, DESIGNING, AND PROGRAMMING
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the Power & Energy curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Building, Designing, and Programming. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

TRANSPORTATION
BUILDING, DESIGNING, AND PROGRAMMING
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the Transportation curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Building, Designing, and Programming. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

PROJECT RESOURCES
BUILDING, DESIGNING, AND PROGRAMMING
\$12.95
Build, Design, and Program
This book is a comprehensive guide to the Project Resources curriculum. It includes a variety of projects and activities that are designed to engage students in learning about the world around them. The book is divided into five sections: Building, Designing, and Programming. Each section contains a list of projects and activities, along with a description of each project and a list of the materials and tools needed to complete it. The projects are designed to be fun and challenging, and they are suitable for students of all ages.

SCIENCE
KELVIN'S ENGINEERING IN SCHOOL

Black & white physics
 Wind turbine no. 10, 12

Earth Science
 Quick index

Energy & Environment
 Kern Energy and Environment

The Project Series
 1011

ARCHITECTURE & DESIGN

KELVIN® ENGINEERING IN SCHOOL



First Tensile Bridge
Design on page 13.



First Crane Machine
Construction on page 17.



Krejo®
Design & Make

1. Find Inspiration
2. Design
3. Make
4. Share



First Car Suspension System
Design on page 34.



First Suspension Bridge
Design on page 38.



First Suspension Bridge
Design on page 38.



First Suspension Bridge
Design on page 38.



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First Suspension Bridge
Design on page 38.

TRANSPORTATION

KELVIN® ENGINEERING IN SCHOOL



Ball and Transportation
age 5-5.5



Transportation and CD
age 5-5.5



Yellow Arrow
age 5-5.5



Black Arrow
age 5-5.5



Pink and White
age 5-5.5



Blue and White
age 5-5.5



Yellow and White
age 5-5.5



Blue and White
age 5-5.5

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POWER & ENERGY

KELVIN® ENGINEERING IN SCHOOL

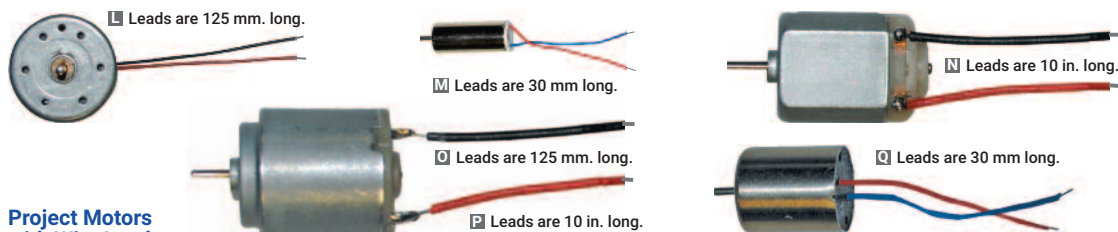
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Find Project Wire on www.kelvin.com

Project Motors with Solder Tabs Always Great Prices & Great Value!

Volt. Range (V)	Nom. Volt. (V)	Current (A)	Speed (rpm)	Torque (g/cm)	Shaft Dia. (mm)	Shaft L. (mm)	Size (mm)	Stock #	Fig.	\$ ea.	\$ ea./10+	\$ ea./100+
0.9 - 1.6	1.5	0.1	6,500	—	10	—	10 x 12.4	851257	A	3.45	3.25	2.95
1 - 6	6	0.041	10,500	4.3	1.5	4	15.5 x 24.1	851255	B	2.65	2.45	2.25
1.2 - 3	1.5	0.34	10,200	6.81	2	8.1	20 x 25	850646	C	1.95	1.75	1.65
1.5 - 3	2.4	0.096	15,800	2.7	1	3.6	12 x 15	851256	D	3.65	3.45	2.95
1.5 - 3	3	0.7	14,400	12.4	2	8.1	20 x 25	851254	E	2.25	1.95	1.75
1.5 - 6	6	0.12	12,000	—	1.5	3.5	18 x 10 x 19	851165	F	1.65	1.55	1.45
3 - 6	6	0.26	17,000	20.72	2	6.5	23.5 x 27	850647	G	2.25	1.95	1.75
6 - 12	12	0.14	12,500	44.2	2	10	24 x 32	850887	H	2.75	2.45	2.25
6 - 12	12	0.7	16,200	236.5	3	8.5	35.7 x 71.5	850941	I	6.95	6.45	5.95
6 - 18	12	0.75	7,205	587	2.2	13.7	37.5 x 27.8	851934	J	5.95	5.75	5.45
12 - 30	30	1.31	12,800	238.4	3	8.5	35.7 x 71.5	850962	K	9.95	8.95	8.45



Project Motors with Wire Leads

Volt. Range (V)	Nom. Volt. (V)	Current (A)	Speed (rpm)	Torque (g/cm)	Shaft Dia. (mm)	Shaft L. (mm)	Size (mm)	Stock #	Fig.	\$ ea.	\$ ea./10+	\$ ea./100+
0.7 - 5	2	0.018	2,200	2.8	2	6	25 x 13.5	851105	L	3.35	2.95	2.75
1 - 2.4	1.5	0.056	21,300	6.4	1	4.2	7 x 16.6	851259	M	3.35	2.95	2.75
1.2 - 3	1.5	0.34	10,200	6.81	2	8.1	20 x 25	851949	N	2.95	2.75	2.45
1.5 - 3	1.5	0.30	10,000	60	2	8.5	23.5 x 27	851230	O	3.15	2.85	2.55
3 - 6	6	0.26	17,000	20.72	2	6.5	23.5 x 27	851950	P	3.25	2.95	2.65
3.6 - 6	4.5	0.029	28,580	9.4	1	2.8	10 x 12.4	851258	Q	3.95	3.55	3.25



Competition Sprint Motors

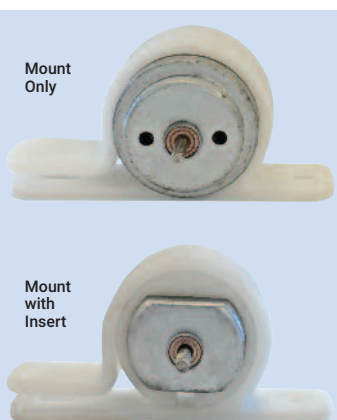
Model #	Volt. Range (V)	Current (mA)	Speed (rpm)	Torque (g/cm)	Shaft Dia. (mm)	Shaft L. (mm)	Size (mm)	Stock #	Fig.	\$ ea.	\$ ea./10+
260	1.5 - 3	120	6,500	51	2	6	23 x 31	851342	R	2.25	1.95
280	1.5 - 3	200	8,200	142	2	10	23 x 34	851343	S	2.25	1.95
370	12	16	3,500	119	2	9	24 x 33	851360	T	9.95	8.95



Project Parts Bin Filler

Includes: racing wheels, big project wheels, cd to wheel adapters, gear wheels, axles, super economy gear sets, cam sets, economy pulley sets, sprocket chain, worm gears, bevel gears, project motors, 3-blade propellers, motor/syringe mounts, crank handles, springs, motor & gearbox kits and a storage drawer. See kelvin.com for full description.

841328Valued at \$725 **\$545**



KELVIN® Universal Motor Mount

This unique motor mount can be used with the insert for smaller motors (like 850646 or 851949) or it can be used without the insert for bigger motors (like 850647, 850887, 851230, and 851950). Set includes mount and insert.

990364 10/pkg.**\$7.95** or **\$7.45** ea /10+

Syringes Fits 1/8 in. dia. tubing.

Volume	Stock #	Qty.	\$ ea.
3 cc	390975	10	3.95
6 cc	390976	10	4.95
10 cc	390977	10	5.95
20 cc	390978	10	8.95
30 cc	390979	10	14.95
35 cc	390980	10	15.95
60 cc	390981	10	16.95

Tubing

Cut to length and use what you need. Fits 1/8 in.

390450	Plastic, 5 ft.	\$3.95
842601	Vinyl, 10 ft.	\$9.95 or \$8.95 ea./3+
390314	Vinyl, 100 ft.	\$24.95

Motor & Syringe Mounts

Fits 1/2 in. dia. / 10 cc Straight Syringe
390963 **A****75¢** or **66¢** ea /5+

Fits 3/4 in. dia.*/ 30 cc Luer Syringe
*850647, 851950, 851230, 850887, 851105.
390967 **A****\$1.25** or **\$1.05** ea /5+

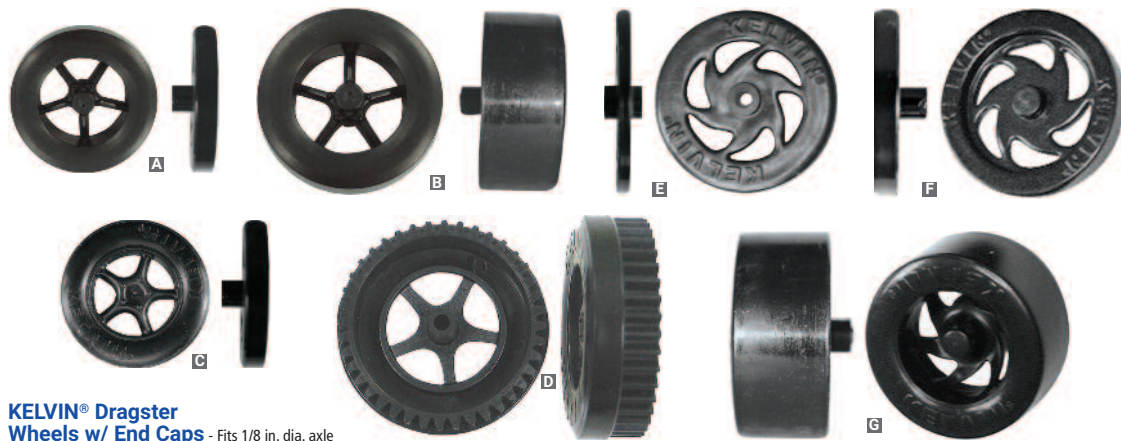
Fits 1 in. dia. / 60 cc Luer Syringe
390962 **A****\$1.69** or **\$1.60** ea /5+

Fits 3/4 in. dia.
390726 **B****\$2.95** or **\$2.50** ea /5+

Fits 1-1/4 in. dia.
390727 **B****79¢** or **69¢** ea /5+

Fits 3/4 in. dia.* / 20 cc Luer Syringe
*Fits: 850646 and 851949.
390588 **C****\$9.95** or **\$8.95** ea /5+

Fits 7/8 in. dia.* / 30 cc Luer Syringe
*850647, 851950, 851230, 850887, and 851105.
390572 **C****\$9.95** or **\$8.95** ea /5+



KELVIN® Dragster Wheels w/ End Caps - Fits 1/8 in. dia. axle

Dia. in.	T in.	Type	Color	Stock #	Fig.	Qty.	\$ ea.	\$ ea./5+
1-3/8	3/16	Front	Black	990319	A	100	10.95	9.95
1-5/8	5/8	Rear	Black	990320	B	100	14.95	13.95

KELVIN® Gear Wheels - Fits 1/8 in. dia. axle

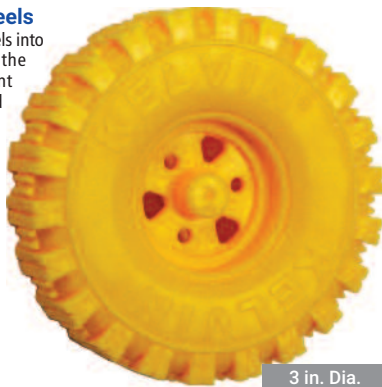
Dia. in.	T in.	Type	Color	Stock #	Fig.	Qty.	\$ ea.	\$ ea./5+
1-3/8	3/8	Front	Black	990172	C	100	21.95	17.95
1-5/8	1/2	Rear	Black	990173	D	100	34.95	29.95

KELVIN® Big Wheels

Turn big 3 in. dia. wheels into gear wheels using the center holes to mount gears with screws and nuts. Push fits 1/8 in. axle. Works with 990199 (see left).

Blue and yellow.
4/pkg.

990176**\$4.95**
or **\$3.95** ea./10+



KELVIN® Big Project Rear Wheels

Ideal wheel for your mousetrap dragster or other projects. This wheel measures 4-3/4 in. dia. (same size as a CD) fits 1/4 in. dia. axle. Includes our 1/8 in. insert.

990181 10/pkg.**\$8.95** or **\$8.45** ea./10+

KELVIN® CD to Wheel Adapter

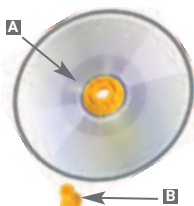
Cleverly convert any CD into a project wheel. Adapter fits a wheel or CD with a 5/8 in. hole with a 1/4 in. diameter axle. Use with the adapter below to fit a 1/8 in. diameter axle. CD not included. 20/pkg.

990182 **A****\$2.95** or **\$2.75** ea./10+

Wheel to 1/8 in. Axle Adapter

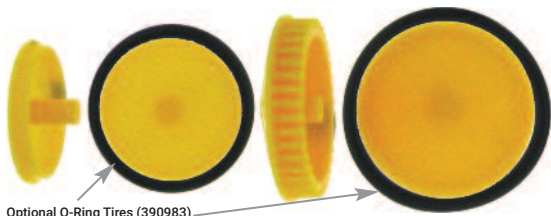
Fit a wheel with a 1/4 in. hole onto a 1/8 in. dia. axle. Can be used with adapter above.

990317 **B** 10/pkg.**\$2.45** or **\$1.95** ea./10+



KELVIN® Racing Style Dragster Wheels - Fits 1/8 in. dia. axle

Dia. in.	T in.	Type	Color	Stock #	Fig.	Qty.	\$ ea.	\$ ea./5+
1-3/8	3/32	Front	Black	990168	E	100	10.95	9.95
1-3/8	3/32	Rear	Grn, Yel	990169		100	11.95	10.95
1-3/8	3/16	Front	Black	990170	F	100	10.95	9.95
1-3/8	3/16	Rear	Grn, Yel	990171		100	11.95	10.95
1-1/2	5/8	Rear	Black	990166	G	100	14.95	13.95
1-1/2	5/8	Rear	Grn, Yel	990167		100	15.95	14.95

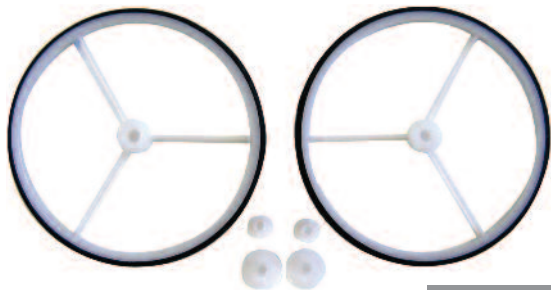


KELVIN® Project Wheels Set

Features [2] 1-3/8 in. dia. wheels with a rim and [2] 1-3/4 in. dia. back wheels with a rim and built-in gear (2-gear ratio; fits a 2mm shaft and matches the big wheels, 990176). Also includes a small double gear and [3] axles.

990199 Project Wheels**\$3.45** or **\$3.25** ea./10+ or **\$2.95** ea./50+

390983 O-Ring Tires (Optional), 4/pkg.**\$2.50**



2-1/2 in. Dia.

KELVIN® Super Lightweight Wheels Set

Ideal where reduced weight and friction are important, these wheels weigh 2.9 grams without adapters. Fits 3mm axle or use adapters to fit 2mm or 1/8 in. axle. Includes [2] 2-1/2 in. dia. wheels, [2] 2mm adapters and [2] 1/8 in. adapters.

990323**\$2.95** or **\$2.45** ea./10+



KELVIN® High Speed Wheels Set

Set includes: [4] 1-1/8 in. dia. wheels with a 3/8 in. wide tread (fits a 3/32 in. dia. axle) and [4] 1 in. long plastic axles.

990211**\$1.45** or **\$1.35** ea./10+ or **\$1.25** ea./50+

High Speed Steel Axles

Zinc-coated steel axles are precision machined. 1 in. long and 0.0870 in. dia. with 0.2 in. dia. head.

391480 50/pkg.**\$13.95**

391087 100/pkg.**\$24.95** or **\$21.95** ea./3+

Ball Bearing Wheel

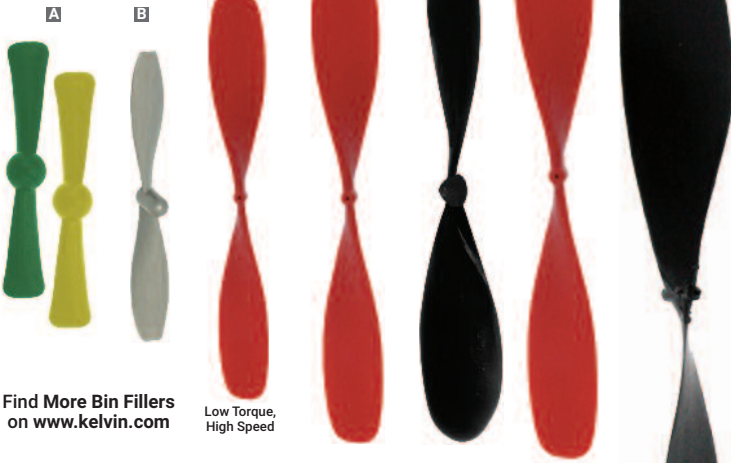
Low friction wheel is ideal for projects where smooth travel is useful. 1-7/8 in. dia.

390735**\$3.95** or **\$3.50** ea./10+



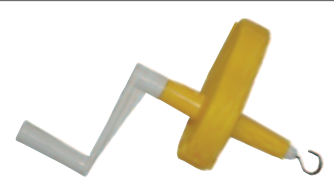
Propellers

Ideal for Planes
& Experiments



Find More Bin Fillers
on www.kelvin.com

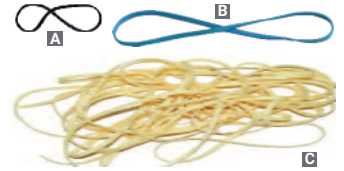
Dia. in.	Fits Axle Dia.	Color	Stock #	Fig.	Qty.	\$ ea.	\$ ea./10+	\$ ea./25+	\$ ea./50+	Each As Low As
3	2 mm	Yel., Grn.	851314	A	8	5.95	5.45	5.25	4.95	.62
3.5	2 mm	Gray	990332	B	5	5.95	5.45	5.25	4.95	.99
5	3/64 in.	Red	850632	C	4	1.45	1.35	1.25	1.00	.25
6	3/64 in.	Red	850889	D	1	.75	.69	.65	.63	.63
6	2 mm	Black	990334	E	1	2.95	2.45	2.25	1.95	1.95
7	3/64 in.	Red	850890	F	1	.85	.80	.75	.70	.70
7	2 mm	Black	990335	E	1	3.95	3.45	2.95	2.45	2.45
9	3/64 in.	Black	850926	G	1	.95	.90	.85	.80	.80



Rubber Band Hand Winder

Easily wind rubber bands for nose hook
propellers or other uses.

283694 1:10\$36.95



Rubber Bands & Motor Loops

Length	W in.	Stock #	Fig.	Qty.	\$ ea.
1.77 in.	1/16	391358	A	100	7.95
2.36 in.	1/16	391359	A	100	7.95
2-1/2	1/16	420436	A	1 lb.	7.95
3	1/8	420231	A	1/4 lb.	6.95
3	1/8	420230	A	1 lb.	14.95
3-1/2	1/4	420235	A	1/4 lb.	12.95
3-1/2	1/4	420236	A	1 lb.	19.95
Assorted		420312	A	2 oz.	10.95
7 in.	1/8	850695	B	35	9.95
50 ft.	1/8	850658	C	1	12.95
225 ft.	1/8	420749	C	1	39.95



Dia. in.	Stock #	Fig.	Qty.	\$ ea.	\$ ea./10+	\$ ea./25+	\$ ea./50+	Each As Low As
3	990175	H	8	5.95	5.45	5.25	4.95	.62
3	851315	I	8	5.95	5.45	5.25	4.95	.62
3	851459	J	4	6.95	6.75	5.95	5.60	1.40

Dia. in.	Stock #	Fig.	Qty.	\$ ea.	\$ ea./10+	\$ ea./25+	\$ ea./50+	Each As Low As
4.5	851107	K	1	2.95	2.45	2.25	1.95	1.95
5	850891	L	1	3.45	3.25	2.95	2.65	1.85



KELVIN® Economy Gear Set

Set of [4] different-sized gears with holes for
attaching to each other with screws. Large gear
diameter is 1-5/8 in. Small gear fits 2mm toy motor
shafts. The other gears push-fit 3mm (1/8 in.)
shaft/axle. Made of 1/4 in. thick durable plastic.

990179 Blk.....\$1.25 or \$1.15 ea./10+
or 95¢ ea./50+
990174 Green\$1.45 or \$1.25 ea./10+



KELVIN® Economy Pulley Set

An economical set of [4] pulleys
includes: 10mm. dia. pulley fits 2mm shaft. 20mm
dia. pulley fits 1/8 in. shaft. 30mm dia. pulley fits
1/8 in. shaft. 40mm dia. pulley fits 1/8 in. shaft.

841538 Set.....\$1.95 or \$1.75 ea./10+
or \$1.65 ea./100+
841539 Bulk Pack of 20 Sets (4 pulleys a set)...\$14.95



KELVIN® Adv. Gear Set

Evenly spaced holes near the edge can be used to
attach gear to a wheel, pulley or other objects.
Gears measure: 9/16 in. dia. (13 teeth), 3/4 in. dia.
(18 teeth), 1-9/16 in. dia. (38 teeth), and 2-11/32
in. dia. (58 teeth). Set includes four center hole
inserts to 1/8 in. and one insert to 2mm. Gears are
1/4 in. thick.

391128\$2.45 or \$1.95 ea./10+

Slotted Optocoupler

Use with 391128 to measure velocity,
acceleration or distance.

270115 5V DC\$3.95



Gears & Pulleys Bin Filler

430517Valued at \$68 \$58 or \$53 ea./3+

10	Worm Gear	10	Gear/Pulley Combo
10	Super Economy Gear Sets (4/set)	5	Economy Pulley Sets (4/set)
10	Adv. Gear Sets (4/set)	2	Sprocket Chain, 36 in.
10	Gear/Motor Mounting Bracket	20	Rubber Band, 2-3/4 in. L
5	Bevel Gear	2	Cam Sets (4/set)



KELVIN® Kre8® Safety Propellers

Dual purpose, push-fit propeller. Can be used as a free flier or a normal propeller.

Stock #	Dia. in.	Quantity	\$ ea.
391369	2.95	10	14.95
391384	2.95	20	28.95



Safety Propellers

Force fits onto any small electric motor with 2mm dia. shaft but has the advantage of a safety ring preventing contact with spinning blade tips. Blue. 125mm (4.92 in.) dia.

990338 10/pkg.\$19.95 or \$15.95 ea./3+



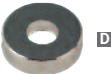
Nose Hook Propellers

Dia. in.	Fits in.	Stock #	Fig.	Qty.	\$ ea.	\$ ea./10+	\$ ea./25+	\$ ea./50+
5	0.21 x 0.45	851219	A	1	1.95	1.85	1.75	1.65
6	0.135 x 0.35	850654	B	1	.99	.85	.75	.65
5.9	0.3125 x 0.09375	990337	C	1	9.95	8.95	8.45	7.95
7	0.25 x 0.125	851458	D	4	9.95	8.95	7.95	7.45



Boat Propellers

Dia. in.	Fits Axle Dia.	Color	Stock #	Fig.	\$ ea.	\$ ea./10+	\$ ea./25+	\$ ea./50+
1	2 mm	Red	851102	E	1.35	1.25	1.15	1.05
1-1/4	3 mm	White	850651	F	1.75	1.65	1.55	1.45
1-3/4	3 mm	White	851166	G	1.75	1.65	1.55	1.45
2-1/4	2 mm	Blue	990324	H	1.95	1.75	1.65	1.55



Disc Magnets

Dia. in.	T in.	Stock #	Fig.	\$ ea.	\$ ea./50+	\$ ea./100+
1/2	1/4	640097	A	.19	.17	—
3/4	3/16	640098	A	.19	.17	—
1	5/32	640099	A	.65	.60	.55

Neodymium Disc Magnets

Dia. in.	T in.	Grade	Stock #	Fig.	\$ ea.
1/4	1/4	N42	640131	B	1.25
3/8	1/8	N42	640127	B	3.25
1/2	1/8	N42	640128	B	1.95
1/2	1/4	N42	640121	B	1.59
1/2	1/2	N42	640129	B	2.95
3/4	1/8	N42	640122	B	2.25
1	3/8	N48	640123	B	9.95

Find Magnet Strips & Maglev Magnets at
www.kelvin.com

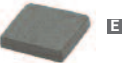


Ring Magnets

Dia. in.	Hole in.	T in.	Stock #	Fig.	\$ ea.	\$ ea./100+
1/2	3/16	1/8	640096	C	.49	.44
3/4	1/4	1/4	640095	C	.35	.30

Neodymium Ring Magnet

3/4 in. dia. with 1/4 in. dia. hole. 1/4 in. thick.
640130 D\$4.95



Bar Magnets

L in.	W in.	T in.	Stock #	Fig.	\$ ea.	\$ ea./100+
1/4	1/4	3/32	640100	E	.59	.49
1/4	1/2	3/16	640091	E	.39	.35

Ceramic Bar Magnet

Red ceramic bar magnet with north and south polarity marked. Measures 1/4 x 5/16 x 13/16 in.
640109 F45¢ or 43¢ ea./3+ or 39¢ ea./6+

KELVIN® Magnets Bulk Pack

[25] Maglev Magnets,
[10] Square Magnets,
[2] Bar Magnets,
[5] Rectangular Magnets,
[10] Disc Magnets (1/2 in. dia.),
[5] Disc Magnets (3/4 in. dia.), [5] Ring Magnets.
841584 62 Magnets\$15.95 or \$14.95 ea./6+

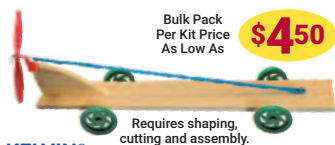
Magnet Set

[90] Disc Magnets (small, medium, large),
[40] Ring Magnets (small, large),
[40] Bar Magnets (small, medium).
640106 170 Magnets ..\$21.95 or \$19.95 ea./3+



Valued at \$79
Magnets Bin Filler

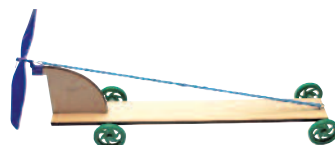
[10] N/S Magnets, [50] Bar Magnets (2 sizes), [10] Neodymium magnets, [50] Disc Magnets, [50] Ring Magnets, and [50] Holed Magnets.
430520 220 Magnets\$75 or \$65 ea./3+



KELVIN® Rubber Band & Propeller Car

Kit includes: [4] wheels, [2] axle straws, propeller, wood (1/4 x 1-1/2 x 12 in.) and a rubber band.

841205 Kit\$5.95 or \$5.75 ea./10+
or \$5.45 ea./25+
841954 Bulk Pack of 50\$4.50 Per Kit \$225



KELVIN® Pre-Cut Rubber Band & Propeller Car

Kit includes: [4] wheels, [2] axles, straw, propeller, laser cut wood, rubber bands, and hardware.

842590 Kit\$9.95 or \$8.95 ea./10+
842593 Bulk Pack of 25\$7.80 Per Kit \$195



KELVIN® Downhill Racer™ w/ Wood Blank & w/ Hi-Speed Wheels

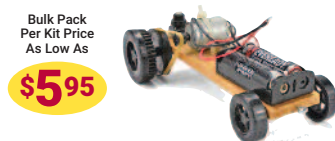
Kit includes: wood blank (1-1/4 x 1-3/4 x 7 in.) w/ pre-cut axle grooves, axles & hi-speed wheels.

841592 Kit\$7.95 or \$6.95 ea./10+
841817 Bulk Pack of 30...\$5.95 Per Kit \$178.50



Kit includes: motor, switched battery holder, 3-blade propeller, Kre8® parts (connectors, rods, tubes, collars, gears, wheels), hardware, rubber bands, sand paper, and plastic strip. Requires AA batteries.

283657 Kit.....\$16.95 or \$14.95 ea./5+
283803 Bulk Pack of 10\$13.50 Per Kit \$135



KELVIN® E.V. Racer™

Includes: motor, wheels, axles, gear set (4 gears per set), battery holder, switch and wood base. Requires [2] AA batteries.

841016 Kit\$7.95 or \$6.95 ea./10+
or \$6.35 ea./25+
841416 Bulk Pack of 25...\$5.95 Per Kit \$148.75



KELVIN® GR Cruiser Car

Kit includes: wood blanks, motors, gears, battery holders, wheels and axles. Requires drilling or gluing with hot glue.

841396 Kit\$8.95 or \$7.95 ea./10+
841425 Bulk Pack of 25...\$6.95 Per Kit \$173.75



KELVIN® Economy Build A Better® Mousetrap Racer™

Includes [2] KELVIN® CD inserts, [2] CDs for wheels, [2] 1-3/8 in. dia. front wheels, mousetrap, dowel, cable ties, wood base and [2] axles.

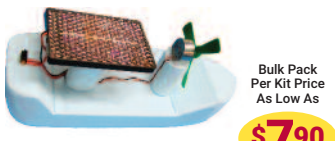
841282 Kit\$3.95 or \$3.75 ea./10+
or \$3.45 ea./25+
841414 Bulk Pack of 100\$3.45 Per Kit \$345



KELVIN® Build A Better® Mousetrap Racer™

Includes: [2] 4-3/4 in. dia. rear wheels, [2] 1-3/8 in. dia. front wheels, mousetrap, wood dowel, cable ties, wood base and [2] axles.

841206 Kit\$4.95 or \$4.45 ea./24+
842427 Bulk Pack of 50\$4 Per Kit \$200



KELVIN® Solar Boat

Kit includes: foam blank (1 x 3 x 12 in.), solar motor, solar cell, propeller, and [2] red wire leads.

841252 Kit\$16.95 or \$15.95 ea./10+
or \$14.95 ea./25+
842621 Bulk Pack of 10.....\$7.90 Per Kit \$79



KELVIN® Air Boat

Kit includes: motor, [2] foam blanks (2 x 2 x 8 in.), wood, propeller, switch and AA battery holder.

841251 Kit\$12.95 or \$11.95 ea./10+
or \$10.95 ea./25+
842623 Bulk Pack of 20\$9.95 Per Kit \$199



KELVIN® Hovercraft Racer

Kit includes: floating bag, foam, motor, propeller, battery holder and switch. Requires [4] AAA batteries as well as tools for cutting and shaping.

842389 Kit.....\$15.95 or \$14.95 ea./10+
842391 Bulk Pack of 15...\$9.99 Per Kit \$149.95



KELVIN® Advanced Competition Hovercraft

Kit includes: [2] motors, foam tray, [2] propellers, 9V battery snap, slide switch, wire, dowel rod, craft stick and clip. Requires 9V battery.

841109 Kit\$17.95 or \$16.95 ea./10+
or \$15.95 ea./25+
842618 Bulk Pack of 10\$12.50 Per Kit \$125
841420 Bulk Pack of 20\$12.50 Per Kit \$250



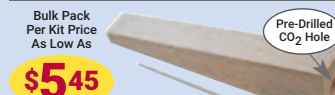
KELVIN® HotShot Raceway™ CO2 Dragster Launcher

2-Lane CO2 dragster launcher is easy to store and carry to competition sites. Self-contained mechanism doesn't have dangerous spring tension hammers that can cause injury. Works with the CO2 Racing Track (841097). Requires adult supervision. Grades 6-12.

840711 2-Lane.....\$595



Kits & Blanks w/ Pre-Drilled CO2 Holes



\$545

KELVIN® Dragster Kit for CO2 w/ Blank 12 in. L

Pre-Drilled w/ CO2 Cartridge Holes

Each kit includes: pre-drilled wood blank, wheels, axles, straw, screw eyes, washers, and instructions. Requires CO2 cartridge, shaping, and assembly.

Kit w/ Pre-Drilled Pine Wood Blank
842640 Kit\$6.95 or \$6.45 ea./10+
841422 Bulk Pack of 50...\$5.45 Per Kit \$272.50
Kit w/ Pre-Drilled Basswood Blank
842641 Kit\$8.95 or \$8.45 ea./10+
842357 Bulk Pack of 50\$8 Per Kit \$400

Kit w/ Pre-Drilled Balsa Wood Blank
842642 Kit\$14.95 or \$14.25 ea./10+
842599 Bulk Pack of 20.....\$13.95 Per Kit \$279
842358 Bulk Pack of 50...\$12.94 Per Kit \$647.50

Kits & Blanks w/ Pre-Drilled Axle & CO2 Holes



\$695

KELVIN® Dragster Kit for CO2 w/ Blank 12 in. L

Pre-Drilled w/ Axles & CO2 Cartridge Holes

Perfect for anyone that doesn't have equipment to drill perpendicular 1/8 in. dia. axle holes. Each kit includes: pre-drilled wood blank, wheels, axles, straw, screw eyes, washers, and instructions. Requires CO2 cartridge, shaping, and assembly.

842377 Kit\$7.95 or \$7.45 ea./10+
842379 Bulk Pack of 50...\$6.95 Per Kit \$347.50

Pre-Drilled Wood Blank (Axles & CO2 Holes)
970387 50/pkg.\$6.50 Per Blank \$325

CO2 Cartridges

For safety, KELVIN® recommends teachers only provide CO2 cartridges during supervised competitions. 8g, 10/pkg.

500025 ★\$7.95 or \$7.45 ea./10+
500053 ★ w/ Cap.....\$8.95 or \$8.45 ea./10+

★ For safety, we only ship CO2 cartridges to continental U.S. via Ground Service




\$295

KELVIN® Essential Dragster Parts

Each kit includes: [2] rear wheels, [2] spoke wheels, axles, straw, screw eyes, and washers. Requires CO2 cartridge for CO2 dragsters.

842643 Kit\$3.95 or \$3.45 ea./10+
842356 Bulk Pack of 50...\$2.95 Per Kit \$147.50

Dragsters are propelled down the track using compressed air. This allows for design flexibility and uses less wood for body design.



THE KELVIN® ORIGINAL
NOT A COPY!

Compressed Air Launches Dragsters Safely

Find Air Compressors on kelvin.com

KELVIN® Kel-Air™ Original Air-Powered Dragster Launcher

Launcher ONLY

This launcher has no display, it uses the analog display on your compressor. Requires air compressor.

840814\$295

Launcher PLUS Track

Kel-Air™ Launcher, Track: 24 ft. long (in three 8 ft. long sections), Portable Air Compressor and [10] Vehicle Kits.

842447Shipping Add \$350 **\$1,095**

Launcher PLUS Track & Motion Timer

Kel-Air™ Launcher, Track: 24 ft. long (in three 8 ft. long sections), hand-held motion timer, portable air compressor, sensor mounting stands, instructions and [10] vehicle kits.

841100Shipping Add \$350 **\$1,495**



Exact Pressure Measurement with Digital Display Air Pressure Gauge

KELVIN® Kel-Air™ Air-Powered Dragster Launcher w/ Digital Gauge

Launcher ONLY

Features a digital display pressure gauge for exact competition pressure every time (requires air compressor which can adjust air pressure). Other features include enhanced pneumatic valve controls, finish gate bumpers and a launch switch.

851967\$345

Launcher PLUS Track & Kel-Timer™ Motion Timer

Kel-Air™ Launcher w/ digital display, track: 24 ft. long (in three 8 ft. long sections), hand-held motion timer, portable air compressor, sensor stands, instructions and [10] vehicle kits.

842596Shipping Add \$350 **\$1,565**

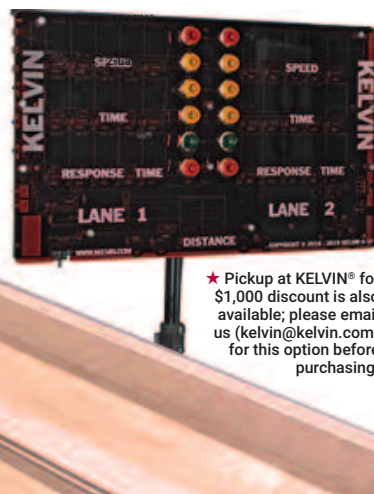


Compressed Air Launches Dragsters Safely

KELVIN® Kel-Air™ ELECTRONIC Air-Powered Dragster Launcher PLUS 24 ft. long Track & Class View Timer™

Package includes: Electronic Air-Powered Launcher, ClassView™ Timer w/ power supply, track (24 ft. long in three 8 ft. long sections), start/finish sensors gates (pre-wired), hand controller set, [50] dragster kits and [2] portable air compressors. 110 V AC. USA plug.

841564U.S. Shipping Included **\$4,500 ★**



★ Pickup at KELVIN® for \$1,000 discount is also available; please email us (kelvin@kelvin.com) for this option before purchasing.

Kits & Blanks w/ Pre-Drilled Air Input Holes

Bulk Pack Per Kit Price As Low As

\$4.25

KELVIN® Air-Powered Dragster Kit w/ Pre-Drilled Blank (Air Input Hole)

Kit includes: pre-drilled wood blank, wheels, axles, straw, screw eyes, washers, and instructions. Requires shaping and assembly.

7-1/2 in. L Kit w/ Pre-Drilled Wood Blank

841091 Kit\$4.95 or \$4.45 ea./10+

840917 Bulk Pack of 10**\$4.25 Per Kit \$42.50**

10 in. L Kit w/ Pre-Drilled Wood Blank

841093 Kit\$5.95 or \$5.45 ea./10+

840918 Bulk Pack of 10**\$4.95 Per Kit \$49.50**

841423 Class Pack of 50**\$4.50 Per Kit \$225**

Pre-Drilled Wood Blank (Air Input Hole Only)
Drill axle holes with teacher supervision.

7-1/2 in. L x 3/4 W Pre-Drilled Wood Blank

390691 50/pkg.**\$2.50 Per Blank \$125**

10 in. L x 1-1/4 W Pre-Drilled Wood Blank

390690 50/pkg.**\$2.95 Per Blank \$147.50**

Kits & Blanks w/ Pre-Drilled Axle & Air Input Holes

Bulk Pack Per Kit Price As Low As

\$5.45

KELVIN® Air-Powered Dragster Kit w/ Pre-Drilled Blank (Axle & Air Input Holes)

Kit includes: pre-drilled wood blank, wheels, axles, straw, screw eyes, washers, and instructions. Requires shaping and assembly.

10 in. L Kit w/ Pre-Drilled Wood Blank

842378 Kit\$6.95 or \$5.95 ea./10+

842380 Bulk Pack of 50**\$5.45 Per Kit \$272.50**

Pre-Drilled Wood Blank (Axle & Air Input Holes)
Holes fit bushings for 1/8 in. axles.

10 in. L Pre-Drilled Wood Blank

970386 50/pkg.**\$4.45 Per Blank \$222.50**

KELVIN® Essential Dragster Parts Bulk Pack

Kit includes: [2] rear wheels, [2] spoke wheels, axles, straw, screw eyes, and washers.

842356 Bulk Pack of 50**\$2.95 Per Kit \$147.50**

Pre-Drilled Blanks w/ NO HOLES

NO HOLES - Requires Drilling

Bulk Pack Per Kit Price As Low As

\$1.50

KELVIN® Air-Powered Dragster Wood Blank

Axle holes and air input hole are to be drilled with teacher supervision.

7-1/2 in. L x 3/4 W Poplar

390556 100/pkg.**\$1.50 Per Blank \$150**

7-1/2 in. L x 3/4 W Basswood

970218 50/pkg.**\$1.85 Per Blank \$92.50**

10 in. L x 1-1/4 W Poplar

390555 100/pkg.**\$2.25 Per Blank \$225**

KELVIN® Dragster Blank Drilling Jig

Makes it easier for students to hold the blank while trying to drill air input holes.

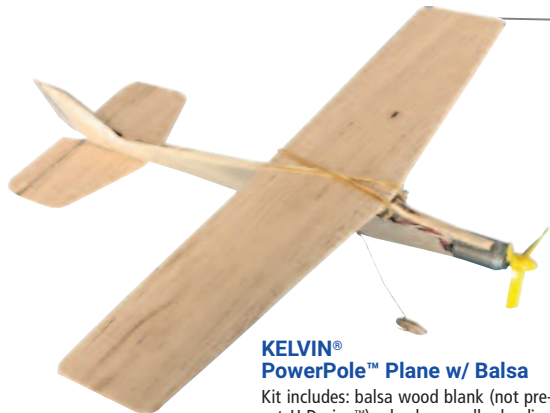
7-1/2 in. L Jig

970046**\$49.95**

10 in. L Jig

970047**\$59.95**

Works with a Hand Drill like 950311.



KELVIN® PowerPole™ Plane w/ Balsa

Kit includes: balsa wood blank (not pre-cut, U-Design™), wheels, propeller, landing wheels, and axle wire.

842446 Kit\$17.95 or \$16.95 ea./10+



KELVIN® PowerPole™ Plane w/ Pre-Cut Balsa

Includes: pre-cut balsa wood, motor, propeller, landing wheels, axle wire, and more.

842445 Kit\$19.95 or \$18.95 ea./10+



KELVIN® PowerPole™ Cargo Plane

Kit includes: foam, foam core board, motor, [3] propellers, landing gear, and instructions with four experiments.

841673 A Kit\$17.95 or \$16.95 ea./10+

KELVIN® PowerPole™ Foam Plane w/ Power Jack Connector

842133 B Kit\$17.95 or \$15.95 ea./10+

842102 Bulk Pack of 10\$149.95

KELVIN® Electric PowerPole™ Design Challenge

Students in middle school and up, can learn about aeronautics and problem-solving while they build a complete model from provided kit material and then test how it flies around the Electric PowerPole™. Planes can be controlled to fly faster and higher.

To begin the challenge, middle school students design the top wing; advanced and high school students design the whole plane. Planes are attached to the power pole for a controlled, 12-foot dia. flying area. Planes are evaluated on speed (rpm), load, and how high they can fly.

Includes: Electric PowerPole™ and [2] balsa plane kits (842446). Requires power supply (842639) and use of safety glasses. Gr. 5+.

851956\$195



Variable Power Supply w/ Polarity Box

842639 A 0-30 V / 0-5 A\$145

KELVIN® PowerPole™ Power Cable From Pole™ to Plane

850811 B 7 ft. long\$2.25 or \$2.15 ea./10+

KELVIN® PowerPole™ 2010 Cable w/ Jack Connector

870118 C\$4.95 or \$3.95 ea./10+ or \$3.75 ea./10+

KELVIN® Electric PowerPole™ Timer

Goes on top of PowerPole™ to track plane distance, time, revolutions, and speed. 8 sensors is 8x more accurate.

841260 1 Sensor, Win, USB\$99.95

841894 8 Sensors, Win, USB\$199.95

KELVIN® PowerPole™ Older Models Upgrade Kit

For older PowerPole™ models with the phone swivel connector. Comes with: 3/4 in. PVC Pipe (15 in. Long), [2] Acrylic Arms, [4] Acrylic Rings, PVC Cap with Jack Connector, 30 ft. Twisted Wire and [4] Bumper Squares.

851509\$49.95



KELVIN® Around the Pole Flight Activity Booklet

This consumable booklet contains instructions and patterns for constructing two planes that can fly around the KELVIN® PowerPole™ (851956, see above). Requires one booklet per student and Electric PowerPole™ (851956).

650973 Booklet\$6.95 or \$6.45 ea./12+



Bulk Pack
Per Kit Price
As Low As

\$3.95

16. in. Wide
Wing Span

KELVIN® Depron Glider

Kit includes: Depron foam and instructions. Require cutting, shaping and drilling the Depron before assembly.

842466 Kit\$6.95

842469 Bulk Pack of 25...\$3.95 Per Kit \$98.50



KELVIN® Extra Large Foam Glider

Kit includes: balsa, foam, propellers, dowels, rubber bands, modeling clay, screw eye, glue, craft knife, DesignGrid™ paper and instructions.

842458 Kit\$29.95

842463 Bulk Pack of 10.....\$25.00 Per Kit \$250

46. in. Wide
Wing Span



Bulk Pack
Per Kit Price
As Low As

\$2.95

KELVIN® Foam Glider w/ Foam Sheets

Kit includes: foam (requires you to design, cut out and shape the foam body and wing), nose weights, rubber bands and instructions.

280614 Kit\$3.95

280606 Bulk Pack of 20...\$2.95 Per Kit \$59.00



Bulk Pack
Per Kit Price
As Low As

\$3.50

16. in. Wide
Wing Span

KELVIN® Blue Bird Glider

Kit includes: blue foam, Depron foam and cardstock tail section. Require cutting, shaping and drilling the foam before assembly.

842465 Kit\$5.95

842470 Bulk Pack of 25...\$3.50 Per Kit \$87.50



Bulk Pack
Per Kit Price
As Low As

\$13.50

KELVIN® Super Capacitor Airplane

Kit includes: foam that students cut and shape, motor, super capacitor, propeller, magnet, reed switch, wire and instructions.

841800 Kit\$15.95 or \$14.95 ea./10+

841801 Bulk Pack of 10.....\$13.50 Per Kit \$135



Bulk Pack
Per Kit Price
As Low As

\$7.50

24. in. Wide
Wing Span

KELVIN® Condor™ Super Size Glider

Kit includes: foam (cut to rough shape of wing and fuselage), balsa, rubber bands, nose weights and instructions with wing templates. Requires Condor Launcher, Launching Unit and teacher supervision. School use only.

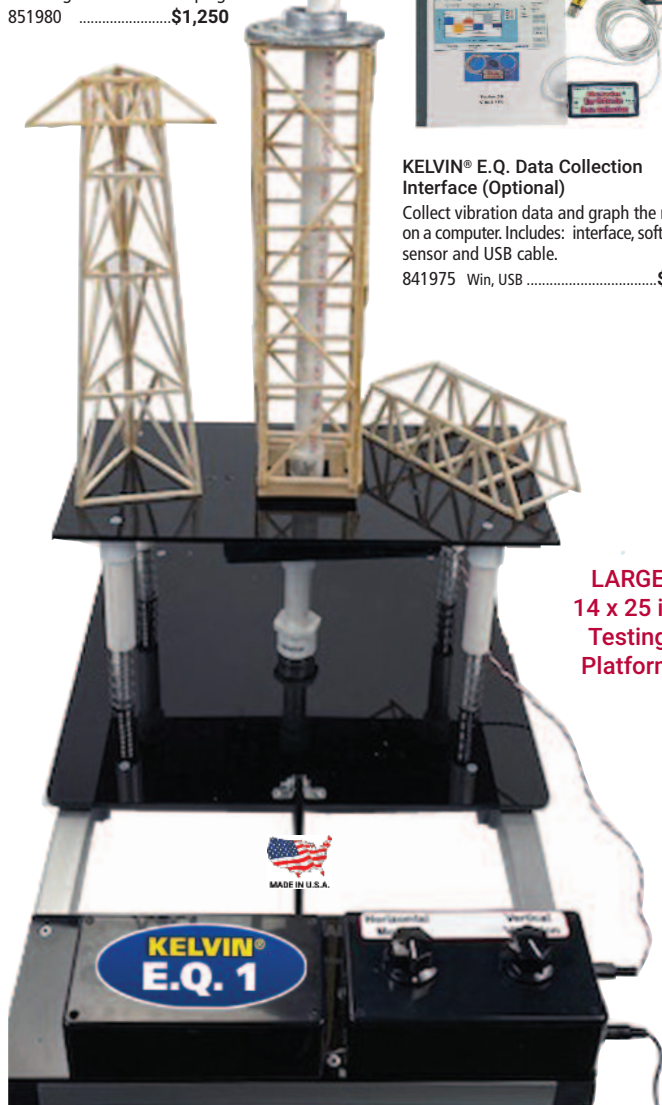
283185 Bulk Pack of 20.....\$7.50 Per Kit \$150



Scan The
Code For
Product
Video

KELVIN® Adv. Earthquake Simulator w/ Horizontal & Vertical Magnet Motion

Features built-in power supply and two control knobs; one knob controls the side-to-side movement while the other knob controls up-and-down movement (primary and secondary waves). Gr. 7 to College. 110 V A.C. USA plug. 851980\$1,250



Test Model Bridges, Towers, Skyscrapers & Houses



KELVIN® E.Q. Data Collection Interface (Optional)

Collect vibration data and graph the result on a computer. Includes: interface, software, sensor and USB cable.

841975 Win, USB\$295

**LARGE
14 x 25 in.
Testing
Platform**



KELVIN® Tiny House

Students design and model the structural frame for a tiny house taking into account space limitations. The activity starts with development of a floor plan using a 1/2 in. = 1 ft. scale. Using the provided templates, students will model the structure from balsa wood sticks. Detailed instructions include construction and architecture vocabulary as well as explanation for framing techniques. Studs are precut to size. Sill plates and beams must be measured and cut by the students. Measures 9 in. L x 4 in. W x 6-1/8 in. H.

842551 Kit\$23.95 or \$20.95 ea./10+ or \$18.95 ea./20+

KELVIN® Advanced 2-Story House Framing

Learn more about construction and framing techniques. Plans, instructions and materials can be used to design and build a 2-story house or a structure the student designs. Scale is 1/2 in. = 1 ft. Framing materials are made from easy to cut balsa wood. Drawings serve as templates in which each elevation frame is assembled by pinning the wood to the template. Requires cutting tools (like Stikutter™) for cutting balsa.

Kit includes: balsa sticks (18 in. L), foam base (1 in. T), pink foam to imitate insulation (small sq. piece), pins, wood glue, and instructions. The completed house measures 7-1/2 x 7-1/8 x 13 in. when built to scale.

Advanced 2-Story House Framing Kit

842576\$49.95 or \$44.95 ea./5+ or \$39.95 ea./10+

Visit KELVIN.com to see and purchase our other Model House Kits, Bridge & Tower Kits, Catapult Kits, and Crane Kits.

KELVIN® Bungalow Model House Framing

Kit includes: balsa beams, glue, grid paper, mounting board for help with assembly, detailed instructions, and drawings. Requires cutting tools.

842583 Kit\$39.95 or \$37.95 ea./10+ or \$34.95 ea./20+

842516 Bulk Pack of 10.....\$29.50 Per Kit \$295



KELVIN® Roof Framing Kit

Kit includes: 1/8 x 3/8 balsa wood, grid paper, glue, pins and instructions.

841773 Kit.....\$49.95 or \$47.95 ea./10+

841888 Bulk Pack of 10.....\$44.50 Per Kit \$445

KELVIN® 1-Story House Framing

Kit includes: balsa beams (1/8 x 3/8 in.), grid paper, glue, pins, detailed instructions, and drawings. Foam base (420781) and roof (841773) not included.

841771 Kit\$79.95 or \$74.95 ea./10+

841886 Bulk Pack of 10.....\$69.50 Per Kit \$695



Bulk Pack Per Team Price As Low As

\$16⁵⁰

KELVIN® Creative Crane

Kit includes: official competition balsa, pulleys (4 per set), motor, motor holder, and competition guide. Requires power supply, assembly and additional parts from teacher.

841544 Kit\$24.95 or \$22.95 ea./10+

281684 Bulk Pack of 6\$16.50 Per Kit \$99



KELVIN® Bridge Building w/ Basswood Beams

Bulk pack includes: [250] 1/16 x 1/16 x 24 in. basswood beams and [250] 1/16 x 1/16 x 24 in. basswood beams. Requires cutting tools.

841427 Bulk Pack\$99



Bulk Pack Per Team Price As Low As

\$9⁹⁵

KELVIN® Large Catapult

Kit includes: wood, plastic cup and ping pong ball. Requires assembly, hand tools, measuring, cutting, hammering, sawing and drilling.

841229 Kit\$11.95 or \$10.95 ea./10+ or \$10.45 ea./25+

841814 Bulk Pack of 24.....\$9.95 Per Kit \$238.80

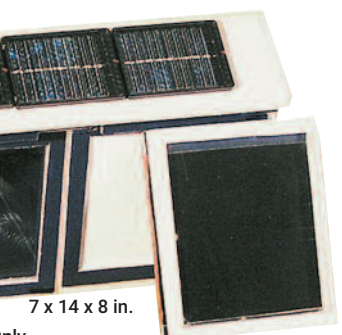


KELVIN® Solar Energy Houses

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



7 x 7 x 8 in.



7 x 14 x 8 in.

Solar House Template Only

Activity includes: template for 1-room house, stick-on thermometer, solar cell, motor, propeller, aluminum sheet, and an instructions sheet. Assembled house measures 7 x 7 x 8 in.

841748 Template Only\$24.95 or \$22.95 ea./3+

Solar House Template Kit

In addition to the contents of 841748 (above), this kit also includes: a ceramic tile and alligator leads. Assembled house measures 7 x 7 x 8 in. long.

841635 Kit.....\$36 or \$29.95 ea./3+

Solar House Lab

In addition to the contents of 841635 (above), this lab includes: liquid thermometer, motor (2 total), propeller (2 total), water pump, foam cutter, knife switch, beaker, battery holder, tubing, LEDs, clothespins, wood, and foam board. Assembled house measures 7 x 7 x 8 in.

841603 Lab.....\$85 or \$75 ea./3+

Solar House Advanced Lab

In addition to the contents of 841603 (above), this lab includes: template for multi-room house, solar cell (3 total), socket, lamp, 50 LE multimeter, and car kit. Assembled house measures 7 x 14 x 8 in.

841602 Lab.....\$175 or \$165 ea./3+

KELVIN® Hands-On Science® Alternative Energy Battery Charger w/ Solar Cell

Includes: Solar Cell (2 V, 200 mA, 2 x 2 in.), AA battery holder and insulated alligator clips with leads. Requires [1] AA NiCad battery (220025, see below).

220163\$5.95 or \$5.65 ea./10+

KELVIN® Hands-On Science® Alternative Energy Battery Charger w/ Solar Cell and Solar Motor

Includes: Solar Motor (851105) and Solar Cell with Alternative Energy Battery Charger (220163 above). Requires [1] AA NiCad battery (220025).

842411\$6.95 or \$6.75 ea./6+

220025 Ni-Cad Battery, AA, 500 mA.....\$1.95 or \$1.75 ea./10+



Solar Cells with Leads

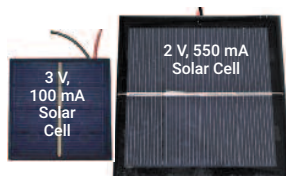
Red and black stranded wires. Leads measure 10 in. long

3 V, 100 mA 2 x 2 in.

220103 ..\$7.95 or \$7.45 ea./10+

2 V, 550 mA 4 x 4 in.

260197 ..\$9.95 or \$8.95 ea./10+



Laminated Solar Cells

Laminated in a high quality resin on a PC board with excellent moisture resistance. Each cell has a solder lug for attaching wire.

260188 0.5 V, 250 mA, 32 x 60 x 4 mm\$7.95 or \$7.45 ea./6+

260189 0.5 V, 500 mA, 62 x 46 x 4 mm\$9.95 or \$8.95 ea./6+

260190 1 V, 250 mA, 62 x 46 x 4 mm\$10.95 or \$10.45 ea./6+

260193 1.5 V, 500 mA, 62 x 120 x 4 mm ..\$22.95 or \$20.95 ea./6+



Battery Charger with Solar Panel

For AA and 9V batteries with included adapters or us switch to select different DC voltages (3, 6, 9, or 12). 600 mW. 165 x 89 x 25 mm.

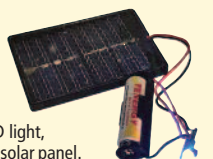
280202\$21.95 or \$20.95 ea./10+



KELVIN® Turn On At Night Light & Battery Charger

Sunlight and a solar cell charges a rechargeable battery during the day. An IC senses voltage change and turns on a LED at dark. Kit includes PC board, LED light, battery holder, rechargeable AA battery and solar panel.

842432 Kit.....\$12.95 or \$11.95 ea./10+



KELVIN® Power Grid Electrical Distribution Class Pack

Explore how electrical energy arrives at its final destination, as well as introduce alternative sources of energy. Construct a model home from the pattern provided and then assemble a simple LED and resistor light circuit that is installed into the model home.

Each model house snaps into the power grid base and picks up current from overhead wires. Measure power output using a multimeter. The house can also work off the grid using energy from solar cells (included), batteries or wind turbine generator (both sold separately).

Class pack includes: grid base, pre-printed mini home cardstock, electronic parts, solar cells and multimeter. Requires assembly and, for off grid use, [4] AA batteries or wind turbine generator (shown).

842082 Class Pack for 24.....\$295 or \$275 ea./3+



Power Grid Mini Homes Bulk Pack

Comes with pre-printed cardstock, special LED, LED holder, wires, connector, and alligator clips. Requires Power Grid (842082).

652520 Bulk Pack of 10.....\$4.99 Per Kit \$49.95

KELVIN® Wind Farm Lab

Join [3] wind turbines in series or parallel and measure current and voltage for each generator or the total output as load is varied. Lab includes base, analog display, wind blower and instructions.

842100 Lab.....\$345

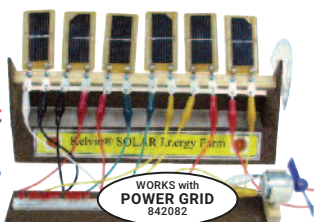
842099 Data Collection Interface, USB, IBM\$295

842101 Lab with Laptop & Interface.....\$1,595

KELVIN® Solar Farm

Teach the basics of solar voltaic energy! Includes: [5] 0.5 volt encapsulated solar cells mounted to a movable arm. Jumpers are used to connect the cells in series or parallel. Also included are 50LE multimeter, [10] LEDs, breadboard, motor, fan prop, protractor to measure the cell angle and instructions.

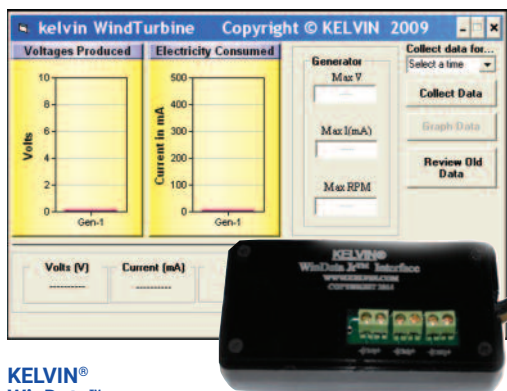
842035 Assembly Required.....\$99.95 or \$89.95 ea./3+



How the Electric Utility System Works

Learn how electricity is made, transmitted, and distributed. Also covers how the electric industry started, energy use, and future industry directions. Booklet.

652497, \$14.95 or \$13.95 ea./6+



KELVIN® WinData™ Data Collection Interfaces

Add data collection to either Experimental Wind Turbine. Students can monitor 3 or 6 motor generators while the graph displays voltage on a computer. For best results, use with motor 851363.

842354 Win Data™ 3 - Up to 3 Motors	\$145
842363 Win Data™ 6 - Up to 6 Motors	\$225

KELVIN® Experimental Wind Turbine House

Students fold a cardstock model house and then create a LED circuit to plug into the wind turbine generator.

Each kit includes: cardstock, LED with holder, resistor, wire, clips, and connectors.

Requires an Experimental Wind Turbine, soldering and wiring.

Bulk Pack of 10	
652613	\$32.95

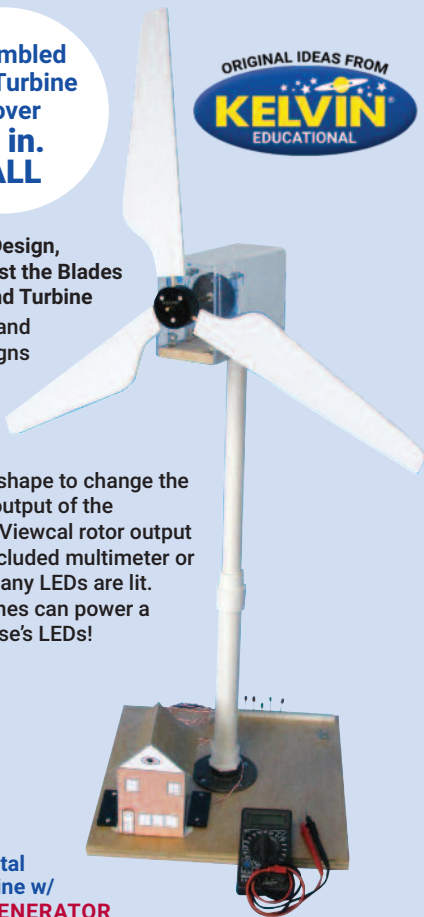


Assembled
Wind Turbine
is over
**45 in.
TALL**

ORIGINAL IDEAS FROM
KELVIN®
EDUCATIONAL

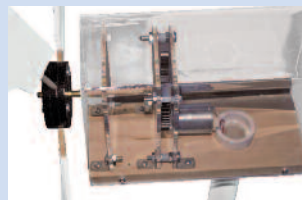
Students Design, Make & Test the Blades for the Wind Turbine

Test rotor and blade designs by varying the rotor sweep, blade size and blade shape to change the electrical output of the generator. Viewcal rotor output with the included multimeter or see how many LEDs are lit. Wind turbines can power a model house's LEDs!



KELVIN® Experimental Wind Turbine w/ MOTOR GENERATOR

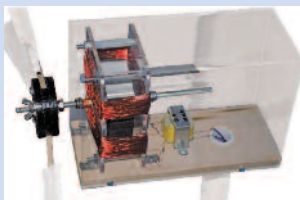
Students can build a wind turbine that uses a motor generator. Kit includes: motor generator, gearbox parts, hub, corrugated plastic for blades, PVC stand with sturdy base, multimeter, LEDs, breadboard, printed house layout, wire, terminals, and instructions. Requires a fan indoors.



842267 Kit w/ Stand	\$135
842268 Assembled w/ Stand.....	\$225

KELVIN® Experimental Wind Turbine w/ WIND-UP MOTOR GENERATOR & TRANSFORMER

Advanced students can build a motor generator and wind the motor coil. Kit includes: motor generator parts, hub, corrugated plastic for blades, PVC stand with sturdy base, multimeter, LEDs, breadboard, printed house layout, wire, terminals, and instructions. Requires a fan indoors.



842258 Advanced Kit w/ Stand.....	\$150
842257 Assembled w/ Stand.....	\$295

Transformer Generator Kit Only - Build Your Own®

Kit includes motor generator parts and hub. Requires motor/coil winding and assembly. Does NOT include blades, PVC stand or wind turbine parts.

851925 Advanced Kit - No Stand	\$99 or \$89 ea./5+
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Motor Generator Kit Only - Build Your Own®

Comes with motor generator, gearbox parts and hub. Does NOT include blades, PVC stand or wind turbine class parts.

851924 Kit - No Stand	\$85 or \$75 ea./5+
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Bulk Pack
Per Kit Price
As Low As

\$3⁹⁵

KELVIN® Basic Wind Turbine Parts

Kit includes: hub, motor, motor holder, and a red LED. Requires scrap cardboard, wood and blower.

842353 Bulk Pack of 20**\$3.95 Per Kit \$79**

Sample Wind Turbine

Bulk Pack
Per Kit Price
As Low As

\$9⁹⁹

KELVIN® Wind Turbine Consumables

Kit includes: hub, [9] dowels, [20] corrugated board sheets (6 x 12 in.), [50] red LEDs and Super Capacitor Dragster Car kit.

851462 Bulk Pack of 10.....**\$9.99 Per Kit \$99.95**

Bulk Pack
Per Kit Price
As Low As

\$17⁹⁵

KELVIN® Kre8® Wind Generator

Kit includes: solar motor, bulb, bulb holder, spinner, Kre8® parts (gears, clip connectors, cardstock sheet, sand paper, bag, and instructions. Requires blower, scissors, hole punch, clear tape and assembly.

283733 Kit**\$22.95 or \$18.95 ea./10+**

283740 Bulk Pack of 20.....**\$17.95 Per Kit \$359**

KELVIN® Chain Reaction Contraption

Kit includes: plywood, wood, aluminum strips, magnets, plastic cups, steel ball, wire, battery holder, buzzer, hardware, and instructions. Requires assembly, shop tools, and [2] AA batteries.

841854 Kit**\$39.95 or \$34.95 ea./6+**
or **\$32.95 ea./10+**

841856 Pack of 10.....**\$29.95 Per Kit \$299.95**

KELVIN® Hand Crank Generator Headlamp

Kit includes: motor, crank handle, tube, stranded wire, [3] three super bright LEDs, enclosure, and adjustable head strap. Requires assembly.

842444 Kit**\$19.95 or \$14.95 ea./10+**

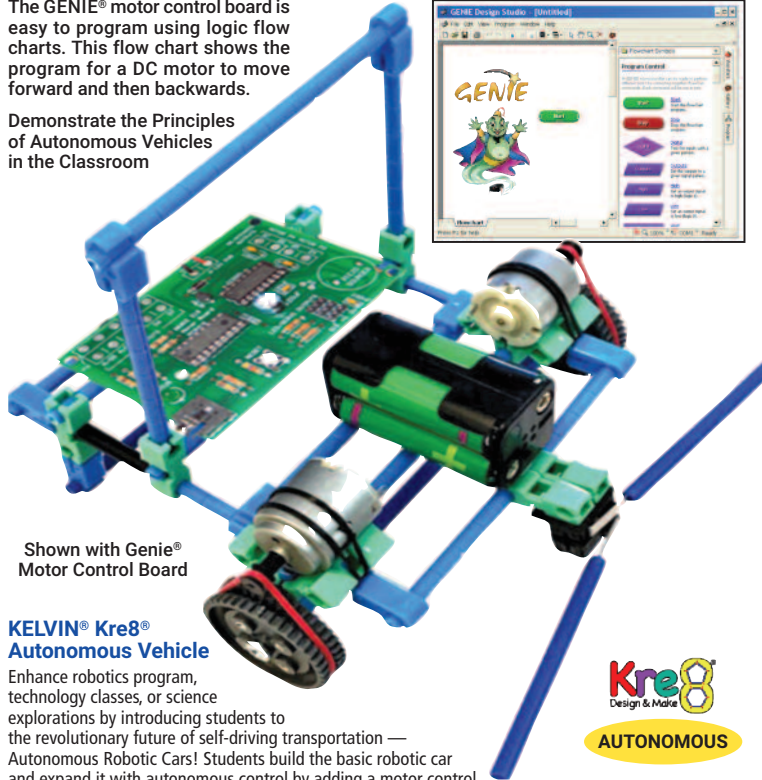
KELVIN® Hand Crank Flashlight

Kit includes: pre-scored cardstock, motor, crank handle, tube, wire, super bright LED, and hardware. Requires assembly.

842442 Kit**\$14.95 or \$13.95 ea./10+**

The GENIE® motor control board is easy to program using logic flow charts. This flow chart shows the program for a DC motor to move forward and then backwards.

Demonstrate the Principles of Autonomous Vehicles in the Classroom



Shown with GENIE® Motor Control Board

KELVIN® Kre8® Autonomous Vehicle

Enhance robotics program, technology classes, or science explorations by introducing students to the revolutionary future of self-driving transportation — Autonomous Robotic Cars! Students build the basic robotic car and expand it with autonomous control by adding a motor control board to control [2] DC motors moving forwards and backwards.

Planning the car's route on the computer is easily done without having to learn program coding. Add conditions like what to do if an obstacle is sensed (left sensor?, right sensor? or both sensors?, go back?, how far?) or the destination is reached (make a left turn? Continue?).

When finished, download the program to the car using the included USB download cable. Disconnect the download cable and turn the power switch on. The car will then move as programmed on the class floor or teacher-designed mat with additional obstacles. The assembled car measures 17 x 18 cm. Once built, the car can be taken apart and rebuilt by the next group.

Two versions of the kit are available, featuring a GENIE® or Arduino® control board (FREE control software is available online). Both versions also include an Autonomous Vehicle Kit with: touch sensor package, wheels and body frame parts, [2] DC motors, AA battery holder and USB download cable. Requires AA batteries, Kre8® Tube Cutter (283653, below) or snips. Grades 6-9 with teacher support.

Kre8® Autonomous Vehicle Kit with Assembled GENIE® Control Board

842537 Shown Above - Requires [4] AA Batteries **\$99.95** or **\$94.95** ea./5+ or **\$89.95** ea./10+

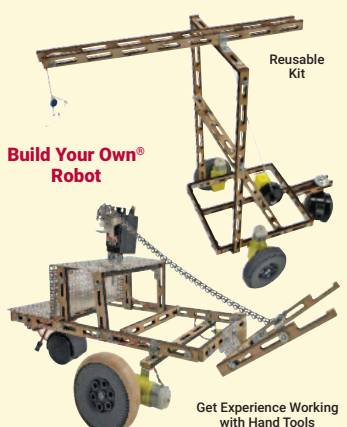
Kre8® Autonomous Vehicle Kit with Arduino® Control Board

842538 Requires [6] AA Batteries.....**\$99.95** or **\$94.95** ea./5+ or **\$89.95** ea./10+

Kre8® kits can be assembled in regular classrooms. Optional Kre8® cutter (283653) can be used to score and snap tubes to length. Use snips (480009) to cut sheet materials and light blue tubes. Kits require proper hand tools, soldering, advanced assembly and adult supervision. Kre8® is a registered trademark of KELVIN L.P.



AUTONOMOUS



Build Your Own® Robot

KELVIN® XZXT™ Robot

Build a robotic car, crane, SUMO Car Wrestler® or, a Mars rover for remote tasks. For control, choose a wired, wireless controller or Autonomous Motor Control. Students will experience using school hand tools for constructing their robotic structures (with teacher supervision).

Each reusable kit includes: frame parts, [3] gear motors, motor, gear, pulley pack, metal chain, [2] side wheels, swivel wheel, screws and nuts.

842451...**\$95** or **\$89.95** ea./5+ or **\$84.95** ea./10+

Add WIRED Remote Control



KELVIN® WIRED Hand Controller

Controls 4 motors. Includes: [4] directional switches and 15 ft. long cable. Requires D batteries (220014).

842306 Assembled ..**\$39.95** or **\$34.95** ea./10+

Add WIRELESS Remote Control



KELVIN® 4+2 WIRELESS Remote Controller

Reusable and shareable. Each pair (a transmitter and receiver) controls 4 project motors and 2 servo motors.

Two motors are used for moving the car and the other two for other purposes. Includes: [2] transmitters, [2] receivers, and [2] LiPo rechargeable batteries with charger.

842584**\$155** or **\$145** ea./2+



KELVIN® The Wright Wind Tunnel™

Comes with Plane Wing Design Kit (990380). 19 x 9 x 9 in. testing chamber; 60 x 16 x 19 in. overall. Air Flow is 728 CFM.

842625**\$3,500** ★

Wind Tunnel w/ 841410 Sensor, Laptop & Pre-Loaded Software

842626 Win, USB**\$5,995** ★

★ Pickup Price; Shipping Add \$1,000

Test Airfoils, Wings, Propellers, Rockets, and Dragster Designs

Shown with Optional Lift & Drag Sensor 841722

KELVIN® Kel-Wind™ Wind Tunnel

Air intake provides smooth laminar air flow. Wind tunnel includes: Plane Wing Design Kit (990380), holding fixture, and built-in variable speed blower. 41 knots wind speed; 1604 CFM air flow. 19 x 9 x 9 in. testing chamber; 77 x 23 x 20 in. overall.

Wind Tunnel, 840614, \$4,995 ★★

Wind Tunnel w/ 841410 Sensor, Laptop & Software-841697, \$6,795 ★★

Wind Tunnel w/ 841722 Sensor, Laptop & Software, 842605, \$6,995 ★★

★★ Pickup Price; Shipping Add \$1,500

KELVIN® Lift & Drag Sensors

Measure lift and drag of wings, vehicles, boat hulls. Attach test item to the sensor rod. Works with most wind tunnels.

Computer Interface Sensor (shown w/ 842625)

No display. View, store, graph and compare test data using USB cable to interface with your computer. Comes with interface, USB cable, software, and digital wind speed meter.

841410 Win, USB**\$995**

Stand-Alone Sensor w/ LCD 2-Line Display (shown w/ 842625)

Instantly view test data on the 2-line LCD display. Does not store data locally but it can be transferred to your computer via USB cable. Comes with a power supply.

841722 Win, USB.....**\$1,250**



Mechanical Lift & Drag Tester

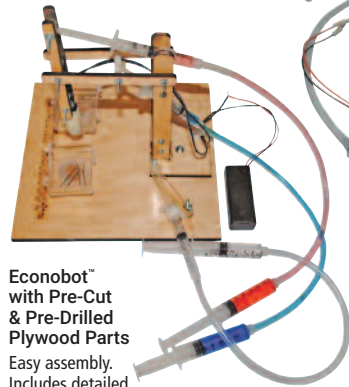
Includes: lift tester, drag indicator, pre-shaped airfoil, [2] airfoil blanks, streamer and hooks.

842617 Requires a Wind Tunnel.....**\$345**

KELVIN® Econobot™ Robotic Arm

The robotic arm moves on three joints - each controlled by water filled syringes. An electromagnet grabber is used to gather magnetic materials for a pick and place challenge.

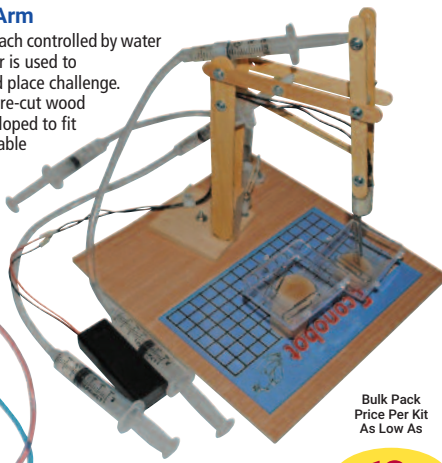
Using craft sticks or pre-drilled and pre-cut wood parts, the Econobot™ is specifically developed to fit a limited budget and still provide a valuable hands-on experience for your students.



Econobot™ with Pre-Cut & Pre-Drilled Plywood Parts

Easy assembly. Includes detailed instructions and background material. Requires AA batteries for operation.

842425 Kit\$35 or \$29.95 ea./3+



Bulk Pack
Price Per Kit
As Low As

\$19⁹⁵

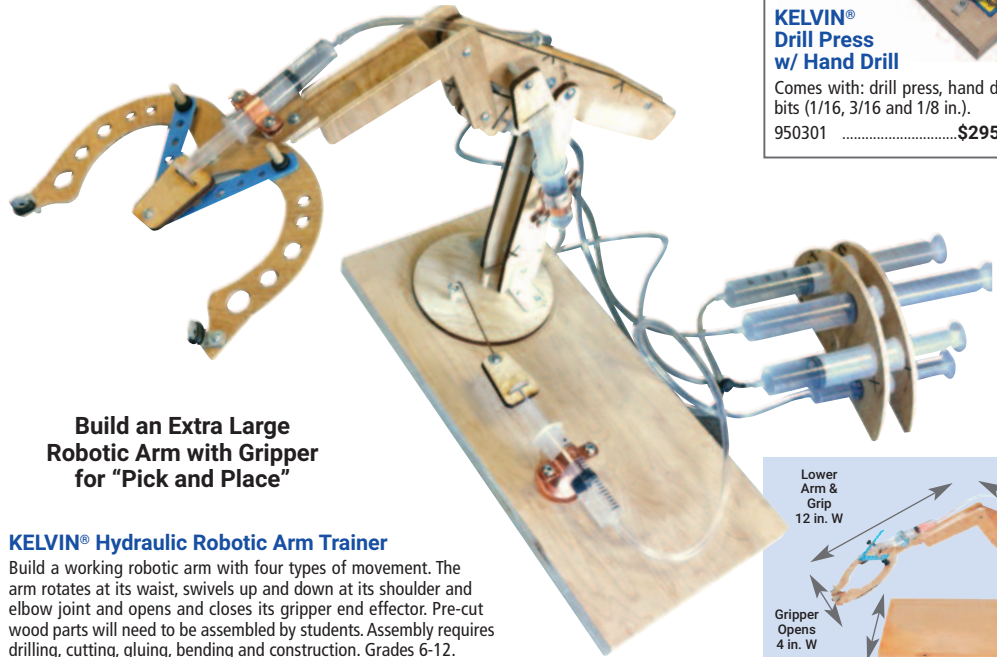
DRILLING REQUIRED

Econobot™ with Craft Sticks

Wood parts require drilling (950301) in addition to cutting and assembly. Kits include detailed instructions and background material. Requires AA batteries for operation.

842410 Kit.....\$24.95 or \$22.95 ea./3+

842419 Bulk Pack of 10\$19.95 Per Kit \$199.50



Build an Extra Large Robotic Arm with Gripper for "Pick and Place"

KELVIN® Hydraulic Robotic Arm Trainer

Build a working robotic arm with four types of movement. The arm rotates at its waist, swivels up and down at its shoulder and elbow joint and opens and closes its gripper end effector. Pre-cut wood parts will need to be assembled by students. Assembly requires drilling, cutting, gluing, bending and construction. Grades 6-12.

842309 Kit.....\$95 or \$85 ea./3+



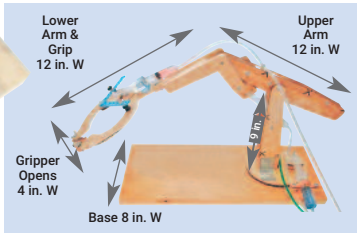
NEW

Updated
Design

KELVIN® Drill Press w/ Hand Drill

Comes with: drill press, hand drill and [3] drill bits (1/16, 3/16 and 1/8 in.).

950301\$295 or \$285 ea./3+



Kre8® A Robotics
Design & Make Manufacturing Unit



Scan The
Code For
Conveyor
Belt
Video



Scan The
Code For
Robotic
Arm
Video

KELVIN® Kre8® Hydraulic Robotic Arm

Assemble a hydraulic robotic arm, with teacher help, to explore construction, operation and control.

283767 Kit - Grades 6+\$39.95 or \$35.95 ea./3+ or \$32.95 ea./10+

Kre8® kits can be assembled in regular classrooms. Optional Kre8® cutter (283653) can be used to score and snap tubes to length. Use snips (480009) to cut sheet materials and light blue tubes. Kits require proper hand tools, soldering, advanced assembly and adult supervision. Kre8® is a registered trademark of KELVIN L.P.

KELVIN® Kre8® Conveyor Belt

Construct a conveyor belt to demonstrate motion, speed ratios, gravity and compound gears. Changes angles. Kit includes switched battery holder. Requires [2] AA batteries.

283650 Kit - Grades 6+\$37.95 or \$34.95 ea./3+ or \$32.95 ea./10+

KELVIN® S.T.E.M. Bin Fillers Each Bin Filler saves you money versus the retail price of buying each item individually.

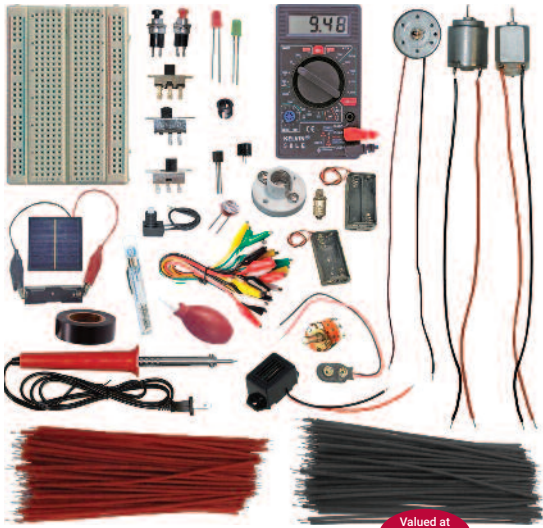


Valued at
\$230

Electronics Bin Filler

10	Battery Holder w/ Leads, AA, 2	10	Super Bright LED, Red
10	Battery Holder w/ Leads, AA, 4	10	Diffused LED, Green
50	Pre-Cut Wire, Stranded, Red	100	Resistors, 100 Ohm, 1/4 Watt
50	Pre-Cut Wire, Stranded, Black	10	Wire Lead Buzzer
1	Electrical Tape, Black	10	Pushbutton Switch, 110V, Red
20	Alligator Clips w/ Leads, 9 in.	2	Electronics Tool Set
6	Knife Switch, SPST	10	LED Holder, 5mm
6	Slide Switch, SPST	3	Solder w/ Pocket Pak Dispenser
6	Mini Bulb Socket, Clip-On	5	Project Motor w/ Leads, 3 - 6 V
6	Bulb Socket, Threaded, E10	5	Project Motor w/ Leads, 1.2-3 V
10	Bulb, Threaded Base	2	Multimeter w/ Buzzer, 50LE

430512Valued at \$230 **\$225** or **\$195** ea./3+



Valued at
\$331

Advanced Electronics Bin Filler

10	Battery Holder w/ Leads, AA, 2	3	Project Motor, 0.7 - 5 V
5	Battery Holder w/ Leads, AA, 4	5	Super Bright LED, Red
50	Pre-Cut Wire, Stranded, Red	5	Diffused LED, Green
50	Pre-Cut Wire, Stranded, Black	5	Wire Lead Buzzer
2	Electrical Tape, Black	10	Photo Cell, 450 Ohm
20	Alligator Clips w/ Leads, 9 in. L	10	Battery Snap, 9 V, I-Shape
10	Slide Switch, SPST	10	Pushbutton Switch, 110 V, Black
5	Pushbutton Switch, 14 V, On-Off	5	Slide Switch, SPDT
10	Bulb Socket, Threaded, E10	5	Slide Switch, DPDT
5	Pushbutton Switch, 110 V, Red	5	Piezo Buzzer
10	Bulb, Threaded Base	10	Transistor
10	LED Holder, 5 mm	10	Potentiometer, Vert. PCB Mount
10	Solar Battery Chrg, 2 V, 200 mA	5	Breadboard, 400 Contacts
5	Solder w/ Pocket Pak Dispenser	2	Multimeter w/ Buzzer, 50LE
5	Project Motor w/ Leads, 3 - 6 V	1	Desoldering Bulb
5	Project Motor w/ Leads, 1.2-3 V	1	Soldering Iron, 20 W

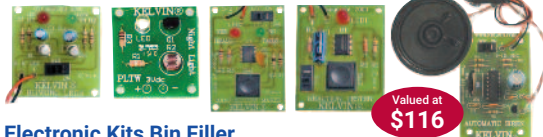
430513Valued at \$331 **\$275** or **\$245** ea./3+



Valued at
\$155

Soldering Bin Filler

5	Soldering Iron, 20 W	5	Desoldering Wick, 0.19 in. W
5	Solder w/ Dispenser	5	Desoldering Wick, 0.10 in. W
5	Soldering Iron Holder	5	Desoldering Bulb
5	Sponge for Holder, Extra	430521	Kit \$135 or \$125 ea./3+



Valued at
\$116

Electronic Kits Bin Filler

5	Blinking LEDs Kit	5	Reaction Tester Kit
5	Decision Maker Kit	5	Police Siren Kit
5	Night Light Kit	430516 \$105 or \$99.95 ea./3+

Bulk Pack
Per Kit Price
As Low As

\$3.95

KELVIN®
Micro-Mazer
Blinking LED eyes and
a jumbo LED gives this
kit a 'robotic face'.
Requires a 9V battery.

841124 Kit**\$6.95** or **\$5.95** ea./10+
842225 Bulk Pack of 20**\$3.95 Per Kit \$79**
842164 Assembled Demo**\$49.95**

Bulk Pack
Per Kit Price
As Low As

\$3.95

**PROJECT LEAD
THE WAY**

KELVIN®
Night Light
Photocell turns a super bright LED on as the
room gets dark or off when it gets light. Requires
[2] AA batteries.

842141 Kit**\$5.95** or **\$5.45** ea./10+
or **\$4.95** ea./20+
842142 Bulk Pack of 30.....**\$3.95 Per Kit \$118.50**

Bulk Pack
Per Kit Price
As Low As

\$1.95

KELVIN®
Blinking LEDs
Demonstrates how to blink two LEDs with many
basic electronic parts. Requires a 9V battery.

841123 Kit**\$3.95** or **\$2.95** ea./10+
842162 Bulk Pack of 30.....**\$1.95 Per Kit \$58.50**
842163 Assembled Demo**\$49.95**

Bulk Pack
Per Kit Price
As Low As

\$6

KELVIN®
Sound Effects v2
New design features a programmed Arduino
chip. Make four different sound effects; from a
Laser Gun to Police Siren. Requires a 9V battery.

842505 Kit**\$13.95** or **\$11.95** ea./10+

Bulk Pack
Per Kit Price
As Low As

\$6

KELVIN®
Police Siren
Mimics a police car
siren with tone adjustment. Can also be used as
burglar alarm. Requires 9V battery.

841567 Kit**\$7.95** or **\$6.95** ea./10+
842245 Bulk Pack of 20.....**\$6 Per Kit \$120**
842189 Assembled Demo**\$59.95**

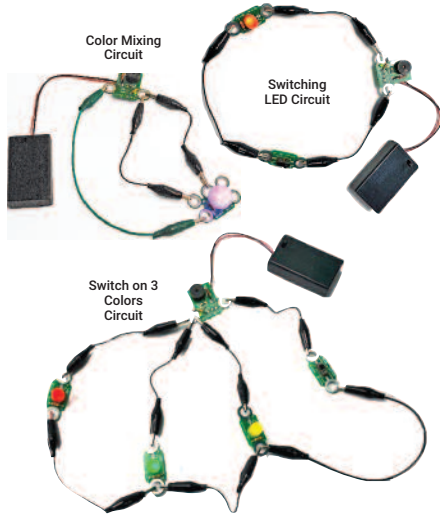
Bulk Pack
Per Kit Price
As Low As

\$3.30

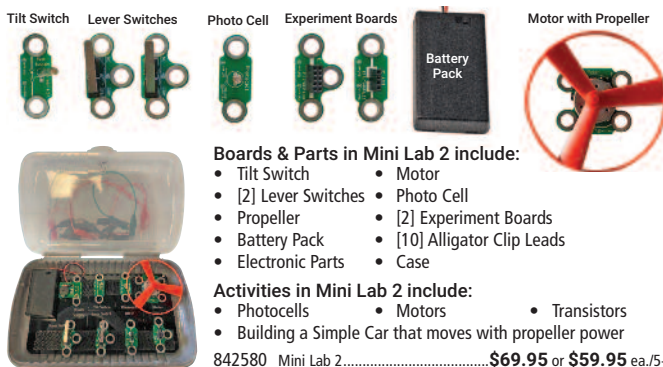
KELVIN®
Reaction Tester
Anticipate when the
LED lights and release the switch. Stays lit up
when right. Requires a 9V battery.

841134 Kit**\$3.95** or **\$3.65** ea./10+
842191 Bulk Pack of 30.....**\$3.30 Per Kit \$99**
842192 Assembled Demo**\$49.95**

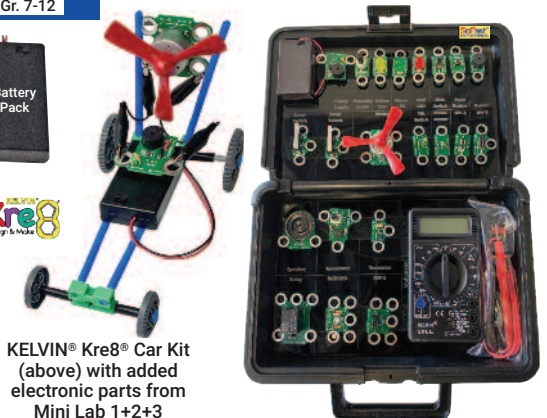
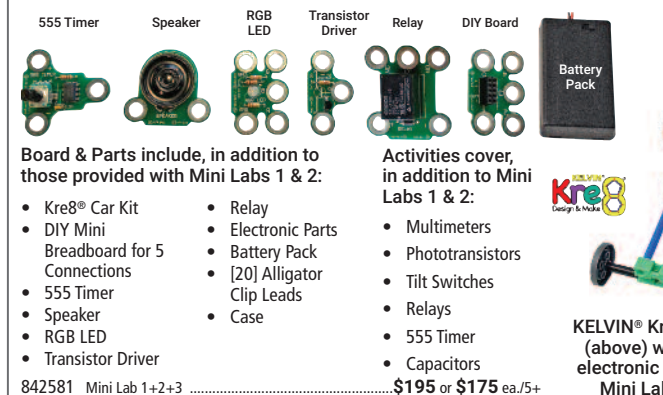
KELVIN® SOFAST® ELECTRONICS MINI LAB 1 Gr. 3-6



KELVIN® SOFAST® ELECTRONICS MINI LAB 2 Gr. 6-8



KELVIN® SOFAST® ELECTRONICS MINI LAB 1+2+3 Gr. 7-12



KELVIN® ELECTRONICS LABKIT TRAINER: DIGITAL

9-1/2 x 6 in.

This trainer features clearly labeled sections of common electronic parts already added to a circuit board. Students use jumper wires and breadboard connection points in each section.

In addition to descriptions of all basic parts, experiments in the manual cover:

- Lighting LEDs
- Using different types of switches
- Display numbers on 7 segment displays
- Using a simple digital probe
- Generating sounds
- Generating colors with an RGB LED
- Demonstrating the operation of AND, OR and NOT gates
- Build 4-bit and 8-bit binary counters and display the data
- Build decade counters
- Use and demonstrate debouncing circuits
- Serial to parallel data transfer
- Parallel to serial data transfer
- Generating PWM signals

Digital LabKit includes:

- [2] Displays, 7-segment w/ BCD driver (CD4511)
- [8] LEDs w/ Drivers (ULN2803)
- [2] Binary Counters, 4-Bit (7493)
- Shift Register, Parallel In/Serial Out (74165)
- Shift Register, Parallel Out/Serial In (74164)
- [6] Digital Inputs/Outputs, Debounced
- 555 Timer w/ Freq. & PWM Adjust.
- RGB LED (Common Cathode)
- Digital Probe w/ Light & Sound Outputs
- [4] AND Gates (7408)
- [4] OR Gates (7432)
- [6] Inverters (7404)
- 10K Potentiometer
- [4] Push Button Switches
- [8] SPDT Switches w/ Protecting Resistors
- 400 Contact Breadboard

Assembled trainer with storage case and 5V adapter. Ideal for HS and trade schools. Powered by the provided 5V DC wall adapter or for standalone operation, use [4] AAA batteries (not included). Each section has its own power connection and does not drain the batteries when not in use. 110V AC. USA plug.

842602 Assembled - Call for Additional Pricing\$295 or \$275 ea./3+ or \$245 ea./10+



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KELVIN® Jumbo Foam Cutter

Extra large cutting area is 12 x 18 in. Comes with: [5] assorted foam blocks, on/off switch, power light indicator, plug, and power supply. 110 V AC. USA plug.

842546 Assembled w/ On/Off Switch\$135

KELVIN® Foam Car

Each kit includes:
[4] wheels, [2] axles,
straw, wood base and
foam block (2 x 2-1/2 x 8 in.).
Shaping and assembly required.

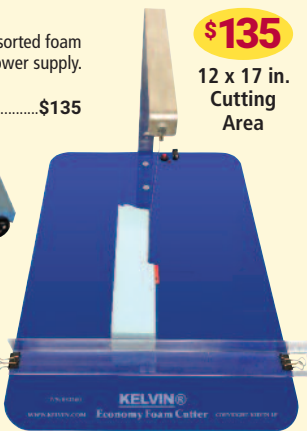
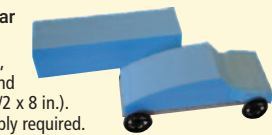
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- **Buzzer**
- Square Wave Output
- Low Battery Indicator
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Comes with 9V battery, holster, test lead, and manual. LCD display measures 49 x 16 mm. Overall size is 124 x 70 x 26 mm.

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Design and add a car body from
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Replaceable blade.

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Polarity Box to
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Polarity



KELVIN® Variable Power Supply w/ Polarity Box

Backlit, 3-digit LED can display 0-30 V and 0-5
A. Constant modes for voltage (CV) and current
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load. Adjustable with fine and coarse knobs. Low
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