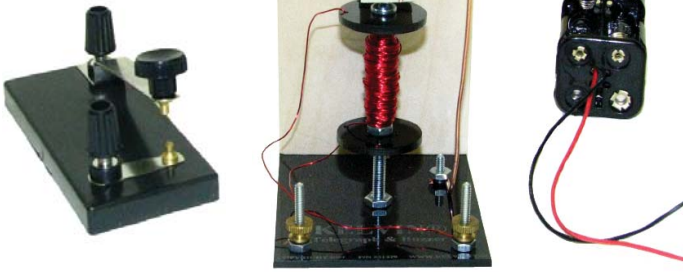


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Build your own telegraph! Wind coil, connect wires and learn to operate and communicate with this system. Take an interdisciplinary journey into the world of telecommunications. Your students will discover the history of the telegraph, the science of magnetism and electrical circuits as well as the technology of sending data over wires. Activities culminate with the construction of a working telegraph sender and receiver.

Includes materials and instructions for experiments: magnetize a nail using a rare earth magnet, build an electromagnet, levitate ceramic magnets, and investigate circuits. Batteries are included.

**KELVIN®**  
**Wright Bros. Plane Design Challenge**

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Turn a foam tray, toy motor, and propeller into a student-designed model airplane! Students in middle school and up, can learn about aeronautics and problem-solving with KELVIN®'s unique Wright Brothers Design Challenge™. Includes a PowerPole™ and materials for 10 foam planes. Great for Grades 5 and up.

**WWII PLANES!**  
By Bob Walker

86

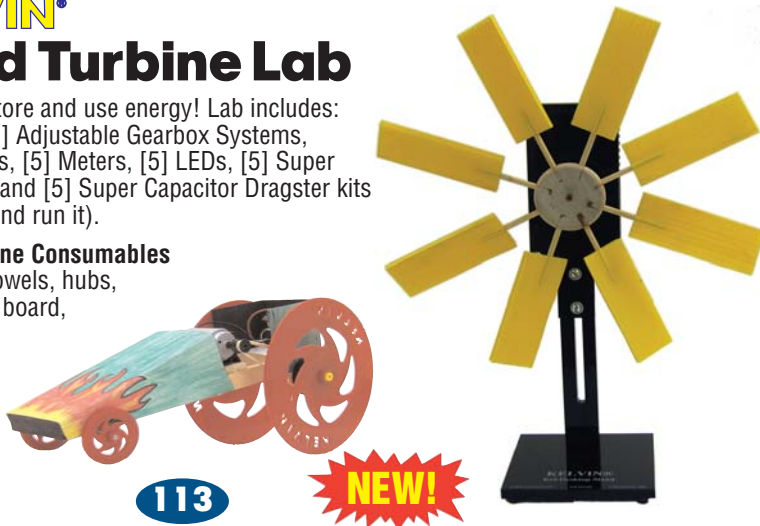


**KELVIN®**  
**Wind Turbine Lab**

Produce, store and use energy! Lab includes: Box Fan, [5] Adjustable Gearbox Systems, [5] Turbines, [5] Meters, [5] LEDs, [5] Super Capacitors and [5] Super Capacitor Dragster kits (charge it and run it).

**Wind Turbine Consumables**  
Includes dowels, hubs, corrugated board, LEDs.

**BONUS:**  
A Super Capacitor Dragster Kit.



113

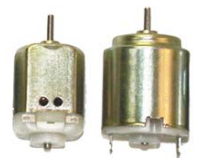
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**Wheels**



FROM 7¢  
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**Motors**



FROM 59¢  
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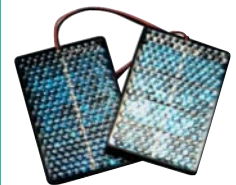
**Gears**



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See how wind is used to produce electricity using a 24" Box Fan (Fan NOT included). includes 2 and 3 bladed propellers, KELVIN® 50LE Meter, LED and alligator clips. Light an LED using wind power. The turbine measures 7" tall.



**NEW!**

**Propellers**



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**Anatomy Models**



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**Project Motors**



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AS LOW AS  
**59¢** EA.

Plus, Solar Motors on pg. 41

**Hovercraft Kits**



83

**Build & Fly!**

**AROUND THE POLE RB™**

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87

Design and Fly Your Rubberband Plane Around the Pole!

Students design, build and test a rubber band powered plane that they will fly around a stationary pole as many times as possible. It helps students understand the forces and mechanisms that make it possible for flight.

See a Video Clip at [www.kelvin.com](http://www.kelvin.com)!

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- 2 - Speed
- 3 - Acceleration
- 4 - Reaction Test
- 5 - Stopwatch
- 6 - Time-out
- 7 - Pendulum
- 8 - Count up/down
- 9 - Measure RPM
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- 11 - KelPole
- 12 - Rocket Speed\*
- 13 - Impact Testing\*



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**Gears**

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**Wheels**

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