

# CURIOUS DIY STEAM KITS

FOR STUDENTS IN K-8

## Complete STEM LESSON in a BOX

Engaging, Take-Home

Online Video Tutorial

Teacher Resources



All Materials and Supplies

Student-Friendly Instructions

Student Assessment

### Purchasing Guide:

- \* Kits are sold individually and in bundles, based on the following themes.
- \* Kits are packaged for individual student use.
- \* All student and teacher resources are included in the prices indicated (materials kit, printed student instructions, presentation resources for teachers, lesson plan, student assessment, and video tutorial).
- \* Volume pricing discount of 10% is applied to purchases greater than 50 units (individual kits or bundles). Volume pricing applies to 50 or more individual kits, whether purchased singly or in bundles.
- \* Remote, live instruction from Curious-on-Hudson is available at an additional fee.
- \* Shipping costs are not included in the following prices. Prices are FOB New York, NY.

**Curious DIY Kits** are a product of Curious-on-Hudson, a leading provider of innovative STEM and STEAM enrichment programs. To learn more, go to: [curiousonhudson.com](http://curiousonhudson.com)

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**§ Creative Technologist:** Basic technology concepts taught through simple take-home projects.

*Individual Kits: \$9.95*

*Bundle (all 3 kits below) – \$25.00*

Product Link	Kit Name	Grade Level	Key Concepts	Description
<a href="#">Link</a>	Magnet Monsters	Grades K-2	Magnetic Forces	Magnetic forces are used to create animated monsters that students design.
<a href="#">Link</a>	Pixel Art	Grades K-1	Digitizing Patterns	Use 3D manipulatives to create images; the foundation of computer imagery.
<a href="#">Link</a>	LED Gauntlet I	Grades K-1	Basic Circuits	Fundamentals of circuitry in “super-hero” wearable technology project.

**§ Electronics and Circuitry:** Basic circuitry leading to prototypes using breadboards.

*Individual Kits: \$12.95*

*Bundle (any 3 kits in this series below) – \$32.00*

Product Link	Kit Name	Grade Level	Key Concepts	Description
<a href="#">Link</a>	LED Gauntlet II	Grades 2-5	Basic Circuits	Fundamentals of circuitry (including resistance) in “super-hero” wearable technology project.
<a href="#">Link</a>	Circuits 101	Grades 2-3	Circuitry	Introduces the basic components of a circuit through a student-built model.
<a href="#">Link</a>	Breadboard Basics I	Grades 2-3	Breadboards	Introduces how breadboards work and students complete a multi-path circuit.
	Breadboard Basics II	Grades 4-5		
<a href="#">Link</a>	Book Light I	Grades 2-3	Circuitry	Students assemble a LED booklight from common materials and electronic components.
	Book Light II	Grades 4-5		
<a href="#">Link</a>	Knob Dimmer I	Grades 2-3	Circuitry	Knob Dimmer elaborates further on breadboards and introduces resistors.
	Knob Dimmer II	Grades 4-5		

**§ Light Physics:** Projects teaching the science of optics

*Individual Kits: \$11.95*

*Bundle (any 3 kits in this series below) – \$30.00*

Product Link	Kit Name	Grade Level	Key Concepts	Description
<a href="#">Link</a>	Light Filter I	Grades 2-5	Light Physics	Students study the light filtration and create light-filtering goggles.
<a href="#">Link</a>	Light Sensitivity I	Grades 2-3	Light Physics	A light-sensitive circuit, and instructions for making a DIY photometer.
	Light Sensitivity II	Grades 4-5		
	Light Sensitivity III	Grades 6-8		
<a href="#">Link</a>	Spectroscope I	Grades 2-3	Light Physics	A DIY-style spectroscope
	Spectroscope II	Grades 4-5		

**§ Mechanical Engineering Design Challenge Series:** Engineering design projects featuring mechanical movement lessons and challenges.

*Individual Kits: \$10.95*

*Bundle (any 3 kits in this series below) – \$30.00*

Product Link	Kit Name	Grade Level	Key Concepts	Description
<a href="#">Link</a>	Animatronics I	Grades 1-2	Mechanical Engineering: Mechanisms	This kit includes parts to create an animated movement using hinges and levers.
<a href="#">Link</a>	Animatronics II	Grades 3-5		
<a href="#">Link</a>	Simple Mechanical Arm I	Grades 1-2	Mechanical Engineering: Mechanisms	Make a simple mechanical arm that can scoop up a ball and put it in a box. Discussion points include the mechanics behind robotics.
<a href="#">Link</a>	Simple Mechanical Arm II	Grades 3-5		
<a href="#">Link</a>	Wind Power I	Grades 1-2	Mechanical Engineering and Conservation	Design a windmill and then measure its effectiveness based on blade design. Discussion includes energy production and conservation.
<a href="#">Link</a>	Wind Power II	Grades 3-5		

**§ Middle School Electronics:** Energy and electricity for more advanced students.

*Individual Kits: \$19.95*

*Bundle (all 3 kits in this series below) – \$50.00*

Product Link	Kit Name	Grade Level	Key Concepts	Description
<a href="#">Link</a>	Solar Night Light	Grades 5-8	Solar Cells, Renewable Energy	Study and assemble the circuitry behind solar powered rechargeable night lights.
<a href="#">Link</a>	Wireless Electricity	Grades 5-8	Induction, Magnetism	Power a light by transmitting electrical energy through air.
<a href="#">Link</a>	DC Motor	Grades 5-8	Electromagnets, Energy conversion	Assemble a fully functional motor.

**§ Virtual Live Instruction for Kits**

*First session: \$350*

*Second session, same topic: \$300*

<a href="#">Link</a>	Live Instruction	All Grades	As an option, Curious-on-Hudson offers live remote instructional services in conjunction with our kits.
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