



Activity Kit

Snap Circuits Green Energy Kit

Materials

Equipment

Snap Circuits Green Energy Kit (see back of manual and page three of this guide for complete parts list)

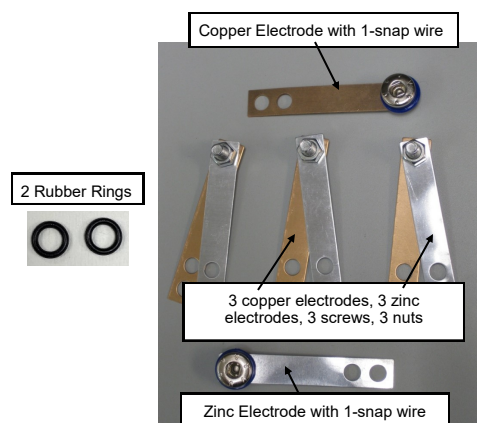
Snap Circuits Green Energy Manual (booklet or in binder)

Supplemental Books

- Think Green: Learn About Energy
- Eco STEAM: The Energy We Use

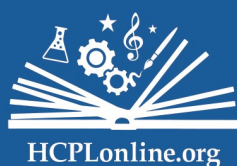


Small Parts List



Recommended for Grades 3 and Up

Caution: Small Parts/Choking Hazard



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What to know about this kit...

What is green energy? What are the problems and challenges we face around the world when it comes to the energy we use? How can we make the most of renewable energy sources and find alternative forms of fuel? This kit will help you answer these questions as you explore and experiment with renewable energy sources.

The Snap Circuits Green Energy Kit allows you to conduct electrical activities using a variety of “green” or renewable energy sources. These sources include:

- a hand crank
- windmill
- solar cell
- liquid battery, and
- rechargeable battery

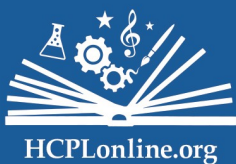
The manual provides step-by-step instructions for 133 different activities. It explains in more detail than the Snap Circuits Jr. Kit how electrical components such as resistors and capacitors work. The book *Think Green: Learn About Energy* discusses various forms of energy and lists specific projects from the kit that illustrate each form.

The book *Eco STEAM: The Energy We Use* provides additional information about energy, and includes additional projects that you can do using materials found around the house or that require small items like a hobby motor or solar cell that can be purchased online. Try the biogas experiment that uses balloons, recycled bottles, and kitchen scraps to determine which types of waste produce the most gas, or the solar oven that demonstrates the power of the sun using a shoebox and some common kitchen items. With just a few additional supplies, you can make a your own solar-powered mini car or make a wind turbine to convert kinetic energy from the wind into electricity.

The future is now! Have fun as you LEAP into Green Energy!

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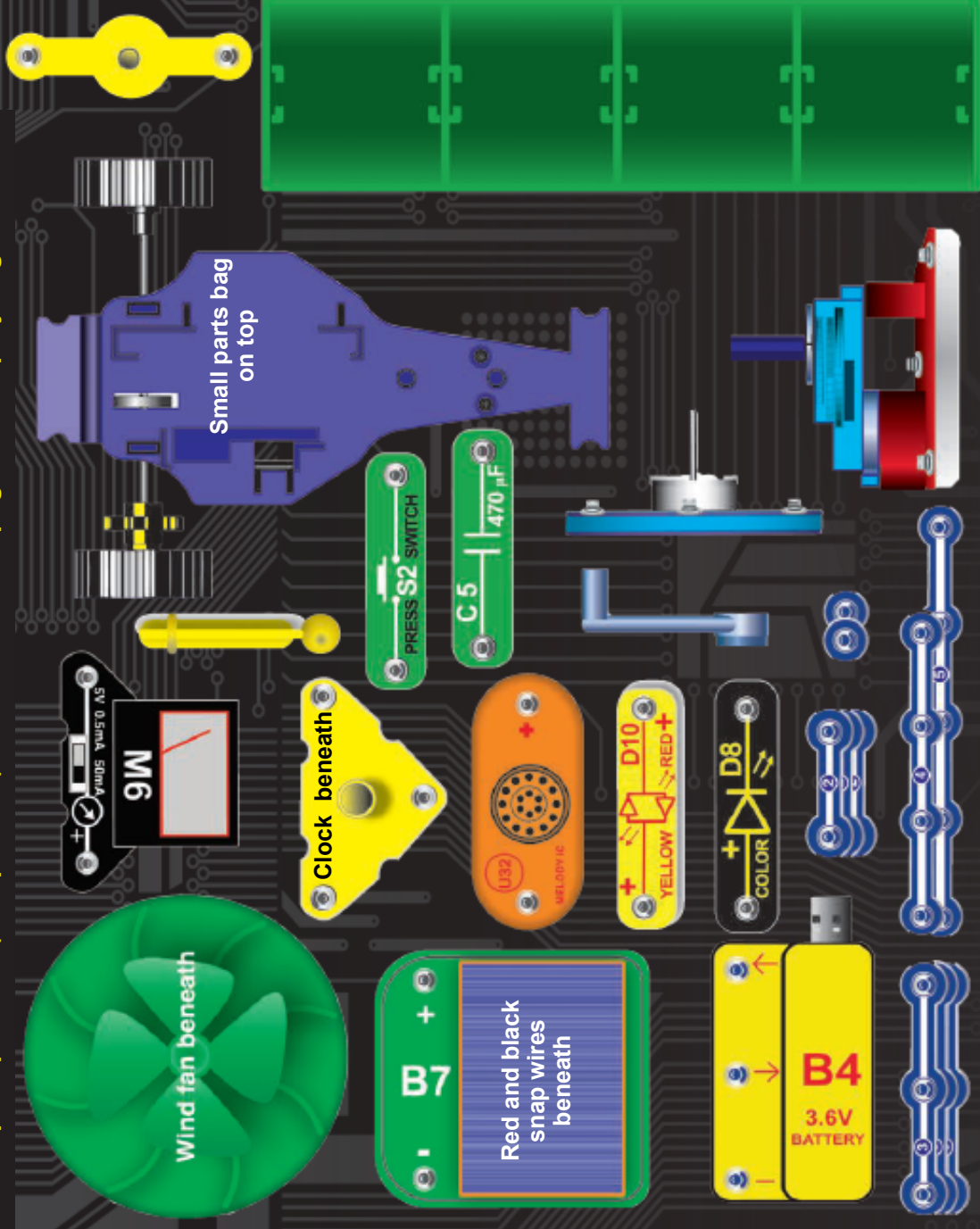
Parts List (colors and styles may vary) Symbols and Numbers

Qty.	ID	Name	Symbol	Part #	Qty.	ID	Name	Symbol	Part #
□ 1		Base Grid (11" x 7.7") Green Color		6SCBGGR	□ 1		Black Jumper Wire		6SCJ1
□ 2	(1)	1-Snap Wire		6SC01	□ 1		Red Jumper Wire		SCCJ2
□ 3	(2)	2-Snap Wire		6SC02	□ 1		Liquid Holder		6SCLH
□ 3	(3)	3-Snap Wire		6SC03	□ 1	(M4)	Motor		6SCM4
□ 1	(4)	4-Snap Wire		6SC04	□ 1		Wind Fan		6SCM4B
□ 1	(5)	5-Snap Wire		6SC05	□ 1		Water Wheel		6SCM4C
□ 1	(B4)	Rechargeable Battery		6SCB4	□ 1	(M6)	Meter		6SCM6
□ 1	(B7)	Solar Cell		6SCB7	□ 1		Mini Car		6SCMCAR
□ 1	(C5)	470mF Capacitor		6SCC5	□ 1		Pivot Stand Base		6SCPSB
□ 1	(D8)	Color LED		6SCD8	□ 1		Pivot Post		6SCPSP
□ 1	(D10)	Red/Yellow LED		6SCD10	□ 1		Pivot Top		6SCPST
□ 3		Copper Electrode		6SCEC	□ 2		Rubber Ring 0.375"		6SCRUBRG
□ 3		Zinc Electrode		6SCEZ	□ 1	(S2)	Press Switch		6SCS2
□ 1		Copper Electrode with Snap		6SCECS	□ 1	(S6)	Switcher		6SCS6
□ 1		Zinc Electrode with Snap		6SCEZS	□ 1	(T2)	Clock		6SCT2
□ 1		Gear 1.75"		6SCGEAR2	□ 1	(U32)	Melody IC		6SCU32
□ 1	(GM)	Geared Motor		6SCGM	□ 3		Nut 8-32		644800
□ 1		Crank Arm		6SCGMC	□ 3		Screw 8-32 Phillips		641840

Important: If any parts are missing or damaged, **DO NOT RETURN TO RETAILER.** Call toll-free (800) 533-2441 or e-mail us at: help@elenco.com
Customer Service: 150 Carpenter Ave., Wheeling, IL 60090 U.S.A.. You may order additional/replacement parts at www.elenco.com/replacement-parts

If any parts are missing or damaged, please notify library staff.

A complete parts list (with pictures) can be located on page 2 of the project guide.



Base grid (11³³x 7.7³³) overlays many parts.