

When Used	We All Run on Energy Materials Kit	Quantity for Classroom
Ongoing	Markers, set of 8	4 packs
Activity 1: Facing the Challenges of Energy		
	Methanol (lab grade)	500 mL
	Ethanol (95%)	100 mL
	Vegetable oil	24 ounces
	Kerosene (deodorized)	500 mL
	Large paperclip (jumbo)	1 box of 100
	Pieces of thick cotton cord (such as clothesline), 1.5 cm long	100 pieces
Activity 2: Why Should We Change?		
Session 8	Rigid tubing, 5/16" x 1.5"	2 pieces
	Small gear that fits snugly onto the motor shaft	1 bag of assorted gears
	Mini hot glue gun	2
	Glue sticks	4
	DC motor: Operates 1/2 to 3 volts, 100ma start-up. Strong torque - 300 RPM @ 1/2 volt. 2mm shaft dia. Size: 1 1/4" diameter x 1 1/4" long.	2
	Multi-purpose scissors	6 pairs
	Thread, 225 yards, white	2 spools
	Masking tape, 60 yards x 1 inch	6 rolls
	Alligator clip cables, 12 inches long	4
	1 V photovoltaic (PV) panel, 3-3/4 x 2-1/2"	2
	Aluminum foil pie plates, 8"	8
	12-inch wooden dowel with 1/4-inch diameter	6
	Duct tape, 1.88" x 45 yds.	2 rolls
	Cardstock, 9" x 11"	8 sheets
	Rulers, metric/English, 12"	6
Marker, fine-tip permanent marker	4	

	Pushpins, clear	Box of 100
	Rubber bands, #33	8
	Metal washers	4
Activity 3: What Is Energy, Anyway?		
Session 11	Any combination of the following (depending on which demonstrations you choose to do): <ul style="list-style-type: none"> • Marble, 5/8" • Rubber band • Matches (<i>not in kit</i>) • Ball (<i>not in kit</i>) 	2 marbles 1 rubber band
	Yule chime	1
	Candles to fill Yule chime	4
Sessions 12–13	Plastic flask	2
	Cork to fit in neck of flask	2
	Vinegar, 5% solution	1 pint
	Tablespoon (dry measure)	2
	Paper coffee filter	12
	Pieces of copper wire, 30 cm long	4
	Wire stripper	1
	Small light bulb (6 W)	2
	Medium-sized metal bowls	4
	Rubber band that fits around the rim of the metal bowl, #172	2
	Salt, non-iodized, 26 oz.	1 box
	Large metal spoon	2
Session 15	Newton’s Cradle	1
	Hand-held DC generator with light bulb	1
Activity 4: Ancient Fuels		
Session 19	Pipe cleaners, 12"	120
	Beads of assorted colors that fit the pipe cleaners (2 multipacks of 150 pony beads)	300
Session 20	Magnets	30
	Reusable hand warmer (one in which sodium acetate and water are activated by bending a metal disk inside the pouch)	10