



Elementary School GreenPower Standard Kit

#	Item	Description	Age Range	Quantity
1.	SunEzoon Car Kit (Solar)	Each kit contains instructions, solar panel with alligator clamps, motor, wheels, steel axles, gear front, chassis parts, and cut-and-fold cover; Easy to assemble – requires craft knife and scissors; Pinion gear element could require adult assistance and/or supervision; Takes approximately 30 minutes to assemble; Appears to be able to disassemble and use for future classes	4 th – High School	10
2.	Adaptable Learning Turbine (Wind)	A powerful wind turbine where students can make and test blades, quickly change gear ratios, and easily test a variety of generators; Takes 20-30 minutes to assemble; Is highly adaptable; Requires wire strippers, duct tape, glue or epoxy, and a craft knife; Entire product is completely “green” – tower made from wood, plastic parts made from recycled plastic bottles	K-High School	1
3.	Super Dynamo Flashlight	Light requires no batteries; Operate it by squeezing the level handle which spins a generator; Clear shell exposes all parts to you can see the science at work; No assembly required	K-High School	1
4.	<i>Energy for Every Kid</i> by Janice VanCleave	Explains energy through experiments and activities (covers heat, sound, electricity, and light); Uses lots of illustrations, provides list of materials for each activity, and step-by-step instructions	4 th Grade – Middle School	2
5.	<i>Biomass Fueling Change</i> by Niki Walker	Thorough explanation of biomass (including biogas and biofuels); Explains what biomass is, its history, the pros and cons, and provides a timeline; Also includes a glossary	3 rd -9 th	2
6.	<i>Building a Green Community</i> by Ellen Rodger	Walks readers through a model community identifying “green living” practices at work, at home, on highways, and at the store	3 rd -9 th	2
7.	<i>Generating Wind Power</i> by Niki Walker	Thorough explanation of wind energy; Explains wind turbines, their history, the pros and cons, and provides a timeline; Also includes a glossary	3 rd -9 th	2
8.	<i>Geothermal Energy: Using Earth's Furnace</i> by Carrie Gleason	Describes the three different ways electricity is produced from geothermal energy; Explains how geothermal energy is currently being used around the world	3 rd -9 th	2

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9.	<i>Harnessing Power from the Sun</i> by Niki Walker	Thorough explanation of solar power; Explains solar panels, cells, etc., their history, the pros and cons, and provides a timeline; Also includes a glossary	3 rd -9 th	2
10.	<i>Hydrogen Running On Water</i> by Niki Walker	Thorough explanation of hydrogen (including fuel cells); Explains what hydrogen is, its history, the pros and cons, and provides a timeline; Also includes a glossary	3 rd -9 th	2
11.	<i>How to Reduce Your Carbon Footprint</i> by Amanda Bishop	Explains what an individual's carbon footprint is and what we can do to make a difference; Includes special case studies of practices around the world; Includes a glossary	3 rd -9 th	2
12.	<i>Ocean, Tidal, and Wave Energy: Power from the Sea</i> by Lynne Papas	Explains how water flow is being used in tidal and wave energy farms, and how the ocean contains enough heat in the surface water to power the world; Case studies included; Also includes pros and cons of this type of alternative/renewable energy	3 rd -9 th	2
13.	<i>Our Big Home</i> by Linda Glaser	Uses poems and artwork to explain that we share the planet with plants and animals; Describes water, sun, soil, air, wind, sky, night, and moon and serves as an introduction to ecological interdependence; Good for Earth Day type discussions	K-2 nd	1
14.	<i>Where Does the Garbage Go?</i> by Paul Showers	Explains what used to happen to solid waste, what goes into landfills, and how aluminum, newspapers, glass bottles and jars, and plastics are recycled today; Discusses using string bags for shopping	K-4	1
15.	<i>Waste and Recycling</i> by Sally Hewitt	Defines recycling and all types (paper, organic waste, cooking oil, plastic, metal, cell phones, etc.); Offers suggested activities for children to get involved; Includes a glossary and list of websites for further info	2 nd – 6 th	2
16.	<i>Reduce and Reuse</i> by Sally Hewitt	Explores ways for kids to turn old things into new things; Emphasizes creating as little waste as possible; Offers suggested activities for children to get involved; Includes a glossary and list of websites for further info	2 nd – 6 th	2

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17.	<i>Using Water</i> by Sally Hewitt	Encourages children to understand that conserving water is important; Discusses types of water (living, rain, ice, oceans, etc.) and how to reuse and clean water; Offers suggested activities for children to get involved; Includes a glossary and list of websites for further info	2 nd – 6 th	2
18.	<i>Using Energy</i> by Sally Hewitt	Explains types of energy (both renewable and non-renewable); Discusses using solar and wind at home and school; Explores options for saving energy and alternative transportation; Defines carbon offsetting; Includes a glossary and list of websites for further info	2 nd – 6 th	2