



Middle and High 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	12
2.	<i>SunEzoon Getting Started</i> Teacher's Guide (Solar)	Book: Covers drive and pinion gears, slope, coordinate graphing, speed, velocity, acceleration, and more	Mid-High School	1
3.	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
4.	Simplified Stirling Engine (Geothermal)	Simple way to demo hot-air engine; Simple assembly required; Students learn how the mechanism works; Includes info and discussion topics	Mid-High School	1
5.	Fuel Cell Car and Experiment Kit (Hydrogen)	Assembly required; Use one quart of distilled water and watch it separate into hydrogen and oxygen; Includes 30 experiments and the ability to measure current and voltage; Students learn how a reversible fuel cell works, how it creates energy, and physics of the device	Mid-High School	1
6.	<i>It's Easy Being Green</i> by Crissy Trask	Packed with bulleted lists of helpful suggestions, the book gives info for adopting a greener lifestyle and helping cultivate a sustainable environment	Mid-Adult	1
7.	<i>Energy For Keeps</i> by Marilyn Nemzer	Thorough explanation of energy, electricity, renewable energy sources, nonrenewable energy sources, energy, health and the environment, and energy policy; Includes CD with classroom lesson plans	Mid-High School	1

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8.	<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	1
9.	<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	1
10.	<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	1
11.	<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	1