



# Solar Power Generation Teaching Materials Catalog

What are the teaching materials?

Teaching materials include instructor guides, student handouts, answer keys, and additional resources for each of the lessons explored in the Solar Institutes. Documentation is also provided for each lesson referencing the US DOE Energy Literacy Standards (ELS) and the Next Generation Science Standards (NGSS).

What is included in the solar power booklet?

The Solar Power booklet contains an illustrated overview of the topic with suggestions for teachers on how to introduce the ideas in the classroom, plus student activity sheets and notes for teachers and technicians. o Student activities: zip files containing the activity sheets in PDF and editable Word formats.

What is a solar-powered toy?

Let's Go Solar: Solar kits, camps, projects, and resources for kids, teens, parents, and teachers. Solar-powered toys and kits not only are environmentally friendly and entertaining, but they also teach kids about how solar power works to make them move and light up. Many can even be assembled by kids.

What can be powered with the solar cell classroom set?

Radios, motors, kinetic sculptures, and model homes can be powered with the Solar Cell Classroom Set. There are 2 sizes of Solar Cell Classroom Set available. The Primary difference is the quantities of solar cells/motors etc to serve different class size. See the chart below. Solar Cells are a fun way to learn about basic electrical circuits.

What is a solar activity toolkit?

Solar Activity Toolkit: Solar United Neighbors created a solar energy activity workbook for kids to use to have fun learning about solar through scavenger hunts, word searches, and other games. [READ MORE ->](#) Department of Energy - Solar: For kids of all ages, there is always something new to learn about science and technology.

What is solar energy - grade 4 stem road map?

Harnessing Solar Energy- Grade 4 STEM Road Map: This education module outlines a journey through solar that will steer your fourth-grade students toward authentic problem solving while grounding them in integrated STEM disciplines. The series is designed to meet the growing need to infuse real-world learning into K-12 classrooms. [READ MORE ->](#)

The next generation of renewable energy lies increasingly in research in one field - solar energy. Solar's growth is unparalleled, providing broad career opportunities. We know that solar energy ...

Solar Schoolhouse makes Solar Cell Classroom Sets for hands-on explorations of solar power and electricity.



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In 2021 we've updated the contents to allow for more projects - including the Solar Carnival, Whirlygigs, Solar Spin Art, Solar ...

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These free SchoolScience approved science resources focus on solar electricity - that's clean, free and abundant power generated by the sun. It's renewable energy that's the future. Empower your students with invaluable knowledge for ...

Determining the available solar energy in a given location is essential for determining the efficiency of a solar device or establishing if solar power devices are even possible options. Today, you determined how much ...

Renewable energy sources are an alternative to traditional sources and are based on inexhaustible and environmentally friendly supply. Various controversies have been stirred up by the development ...

The Renewable Energy Science Kit demonstrates the workings of a clean energy technology system on a miniature scale. Power an electrical circuit by solar panel or a wind turbine with profiled blades based on NASA aeronautics. Generate ...

In Solar PV: Module Amps & Volts (Residential Size), your students will use industry tools of the trade to make common solar PV measurements to determine what affects module performance and how performance is affected. This ...

nations at large are opting for and considering renewable energy technologies for their power generation. Solar energy, in particular, is seen as an extremely viable option, especially in ...

Thermoelectric materials convert waste heat into electricity, making sustainable power generation possible when a temperature gradient is applied. Solar radiation is one potential abundant and eco-friendly heat source for this application, ...



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