

The Center for Energy Research team at the University of Nevada, Las Vegas has created a total of 3 different solar kits designed to teach students about engineering, solar energy, and science. Our team would like to provide your students with the opportunity to use these educational kits and learn about the different ways that solar energy can be used. We have a simple Fan & Light Kit designed to power fans and lightbulbs with a photovoltaic panel (intended for grades K-5), a student-assembled Off-Grid Kit designed to power a battery that in return can power anything with a plug or USB (intended for grades 6-8), and a student-assembled Water Heater Kit designed to heat water through solar thermal energy (intended for grades 9-12).

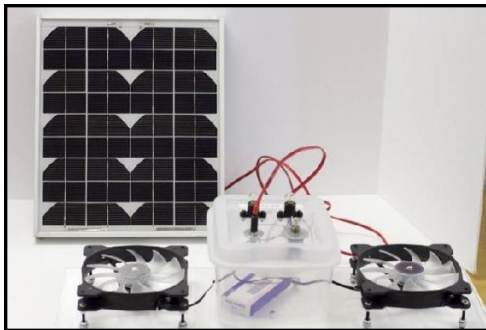
When to do this:

In-person activities:	<ul style="list-style-type: none"> • After or before school (possibly for a club or student group). • A special event or activity at the school (e.g., Science Night, STEM Day) • During class 	These activities will be implemented following current health guidelines including group size limitations, social distancing, and use of face masks.
Live remote sessions (Online meeting via Zoom or a similar platform):	<ul style="list-style-type: none"> • Schools with remote learning attendance • Organizations or clubs with remote learning sessions • Educational webinars 	These interactive sessions will be tailored by a STEM Ambassador to the individual needs.

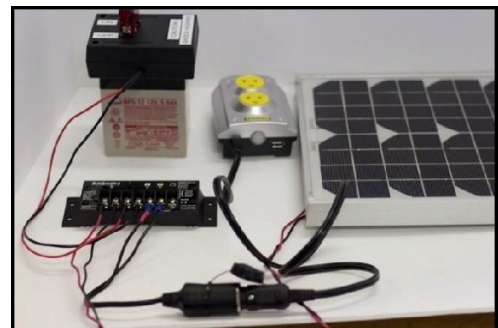
What students can take from this:

- An introduction to engineering
- An introduction to solar energy

For questions or to schedule an outreach event, please contact Mayra Sarria (Coordinator): sarriaco@unlv.nevada.edu



Fan and lights powered by a photovoltaic panel. Appropriate for elementary students.



Use a photovoltaic panel to charge a battery or your cell phone. Appropriate for middle school students.



Use two solar technologies (photovoltaic, thermal) to pump and heat water. Appropriate for high school students.