

Intermediate Activity: Energy in the Round - Solar

A QUICK LOOK AT ENERGY IN THE ROUND

Energy in the Round is a quick, fun game to reinforce information about energy sources, forms of energy, and general energy information from the Intermediate Energy Infobook.

GRADES: 5-8

PREPARATION: LOW

TIME: 20-30 MINUTES

GET READY

- Copy one set of the Energy in the Round cards onto card stock and cut into individual cards. Have a class set of the Intermediate Energy Infobooks available for quick reference.

GET SET

- Distribute one card to each student. If you have cards left over, give some students two cards so that all of the cards are distributed.
- Have the students look at their bolded words at the top of the cards; give them five minutes to review the information about their words using the infobooks.

GO

- Choose a student to begin and give the following instructions:
- *Read the question on your card: The student with the correct answer will stand up and read the bolded answer, "I have ____."*
- *That student will then read the question on his/her card, and the round will continue until the first student stands up and answers a question, signaling the end of the round.*
- If there is a disagreement about the correct answer, have the students listen to the question carefully (forms versus sources, for example) and discuss until a consensus is reached about the correct answer.
- More topics and cards can be found on the website at www.need.org.

I have energy. Who has two major gases that make up the sun?	I have the speed of light. Who has the form of energy that sunlight is converted to when it is absorbed by the Earth?	I have a passive solar home. Who has a home with solar collectors and other solar equipment to heat it?
I have hydrogen and helium. Who has the process in which hydrogen atoms combine to form helium and energy?	I have thermal energy. Who has the color that absorbs more sunlight than other colors?	I have an active solar home. Who has the energy produced by uneven heating of the earth's surface?
I have nuclear fusion. Who has the form of energy emitted into space during fusion?	I have the color black. Who has a system that captures solar energy and turns it into usable heat?	I have wind. Who has organic matter that has absorbed energy from the sun?
I have radiant energy. Who has the amount of time it takes the sun's energy to reach the earth?	I have a solar collector. Who has the process of using the sun's energy to heat buildings?	I have biomass. Who has the energy sources that can be replenished in a short time?
I have eight minutes. Who has 186,000 miles per second?	I have solar space heating. Who has a home that relies on orientation and construction materials to capture the sun's energy for heat?	I have renewable. Who has the source of energy that is stored in fossil fuels?

I have solar energy. Who has the process that traps the sun's energy in the atmosphere and makes life on Earth possible?	I have concentrated solar. Who has the word that means light?	I have silicon. Who has the system 1.5 million U.S. homes use to increase the thermal energy in their water?
I have the greenhouse effect. Who has the process plants use to convert radiant energy into chemical energy?	I have photo. Who has tiny bundles of light from the sun?	I have solar water heater. Who has the direction solar collectors should face in the U.S.?
I have photosynthesis. Who has evaporation, condensation, and precipitation driven by the sun?	I have photons. Who has the form of energy directly produced by solar cells?	I have south. Who has a major reason that capturing sunlight is difficult?
I have the water cycle. Who has an object that can be used to cook food on a sunny day?	I have electrical energy. Who has the technical word abbreviated as PV?	I have solar is spread out. Who has the renewable energy source that is NOT produced by the sun's energy?
I have a solar oven. Who has the system that uses mirrors to capture the sun's energy?	I have photovoltaic. Who has the common ingredient used to make a PV cell?	I have geothermal. Who has the ability to do work or make a change?