

Name: \_\_\_\_\_

# Content Check

**Read and answer the questions below.**

**1. What are two ways to make this fan work?**



**2. Read the explanation below of how solar-powered devices work. Fill in the blanks using the word bank.**

**Word Bank: wire electricity energy sun**

Energy from the \_\_\_\_\_ is absorbed into the material inside a solar panel. The solar energy is changed into \_\_\_\_\_ inside of the solar panel through solar converter. A \_\_\_\_\_ is connected from the solar panel to the device that needs electricity. The electricity travels from the solar panel and into the wire, and then from the wire into the device. The device uses solar \_\_\_\_\_ to work!

**3. Would you rather have a solar-powered phone charger or a phone charger you can plug into the wall? Explain your reasoning.**

4. You want to put a solar powered television in your basement. Where should you put the television? Draw where you think the TV should be placed, and explain why you put it there.



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## Teacher Key

### 1. What are two ways to make this fan work?

You can either plug the fan into the wall so that it will receive electricity, or you can add a solar panel to it that will convert the energy from the sun into electricity.

### 2. How does solar energy power a device that needs electricity?

Energy from the sun is absorbed into the material inside a solar panel. The solar energy is changed into

electricity inside of the solar panel through solar converter. A wire is connected from the solar panel to

the device that needs electricity. The electricity travels from the solar panel and into the wire, and then from the wire into the device. The device uses solar energy to work!

### 3. Would you rather have a solar-powered phone charger or a phone charger you can plug into the wall? Explain your reasoning.

Answers may vary: one might want a solar-powered phone charger for when the electricity goes out. It is also cleaner for the environment. A person may prefer a phone charger that you plug into the wall because some days there is no sun.

### 4. You want to put a solar powered television in your basement. Where should you put the television? Draw where you think the tv should be placed, and explain why you put it there.

The television needs to be by a window so the solar panels can access the sun's rays.