Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ date \_\_\_\_\_\_\_\_\_\_ hour\_\_\_\_\_\_\_\_\_\_

Solar Energy Slideshow worksheet

Log onto the MOODLE page and click on the solar energy slideshow. Answer the following questions as you move through the slideshow.

1. Which two elements make up the sun? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Radiant energy from the sun reaches the Earth as photons of light (visible, UV and Infrared). List at least 4 reasons the sun’s energy is important to life on Earth.

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3. Two devices that can collect and convert sunlight into electricity are

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. “Phos” is a Greek work meaning \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and “volt” is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Click to enlarge the diagram showing how a Solar Power plant works. Use the diagram to give a basic explanation of how solar energy is converted into electrical energy.

6. Solar energy can also be converted into heat or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy.

7. List two ways passive solar heating systems can be used in houses or businesses.

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8. Benefits and Challenges of Solar energy – Write 2-3 answers for each category below.

Benefits Challenges

\*Remember that the Law of Conservation of Energy states that the total energy of an isolated system is constant. Energy can be transformed from one form to another, but can be neither created nor destroyed.

\*Remember that the sun’s energy comes from the fusion of 4 Hydrogen nuclei into one Helium atom.