Level 2

Module 4

**Activity 3 (Solar)**

***Fact? or Fiction?***

In the black before each statement, write either ***fact*** or ***fiction***. Rewrite the fictitious statements to make them factual. (Hint: 80% of the statements are fictitious.)

**\_\_\_\_\_\_\_\_\_\_** 1. The sun is about 93 million miles from the earth, and it takes about 8 minutes for solar energy to travel that distance.

**\_\_\_\_\_\_\_\_\_\_** 2. Solar power is created in the core of the sun by a process called nuclear fission.

**\_\_\_\_\_\_\_\_** 3. Active solar energy means that an object is heated because sunlight is warmingit.

**\_\_\_\_\_\_\_\_\_\_** 4. Electricity is generated directly from sunlight by a photovoltaic system.

**\_\_\_\_\_\_\_\_\_\_** 5. Most of the solar energy that strikes the earth is absorbed by plants, oceans, land; and used by animals and humans.

**\_\_\_\_\_\_\_\_\_\_** 6. Electricity is the flow of electrons, the positively-charged particles of an atom.

**\_\_\_\_\_\_\_\_\_\_** 7. Electricity can provide water for cattle in areas where solar power is not available.

**\_\_\_\_\_\_\_\_\_\_** 8. Electricity is generated directly from sunlight by a photovoltaic system.

**\_\_\_\_\_\_\_\_\_\_** 9. Helium nuclei in the core of the sun collide at very high speeds and fuse together to form hydrogen.

**\_\_\_\_\_\_\_\_\_\_** 10. A solar panel is a photovoltaic cell.

**\_\_\_\_\_\_\_\_\_\_** 11. The energy created in the core of the sun can take 186,000 years to reach the surface of the sun.

**\_\_\_\_\_\_\_\_\_\_** 12. The nucleus of an atom consists of protons, neutrons, and electrons.

**\_\_\_\_\_\_\_\_\_\_** 13. Using natural light from the sun to help light the interior of buildings is called *concentrated solar power*.

**\_\_\_\_\_\_\_\_\_\_** 14. The sun’s radiation striking the surface of the earth has the energy equivalent of 26 billion watts.

**\_\_\_\_\_\_\_\_\_\_** 15. An insulator allows electrons to flow freely from one atom to another.