

Name: _____

Nuclear Energy Exploration Sheet

Complete the items below as you read about nuclear energy.

1. The process in which atoms are combined or fused together to form a larger atom, releasing energy is called _____
2. The process in which atoms split apart to form smaller atoms, releasing energy is called _____
3. Nuclear power plants convert energy released from nuclear fission into _____
4. What is the fuel most widely used by nuclear power plants?

5. Why is Uranium-235 used in nuclear plants as a fuel?
6. Nuclear fission splits the atom and releases energy and _____
7. What can be used to control the chain reaction in a nuclear plant?

8. The steam that is produced at a nuclear plant is changed back into water and cooled in a separate structure called _____
9. How does electricity travel from a nuclear power plant to a home?

10. Two-thirds of the energy produced by a nuclear power plant is lost as _____

11. Nuclear power provides the United States with _____% of its electricity it consumes.

12. Through what process do spent fuel rods lose their radioactivity?

13. List one advantage of nuclear power generation?

14. List one disadvantage of nuclear power generation?