

Active Reading

Section: Nuclear Energy

Read the passage below and answer the questions that follow.

Inside a nuclear reactor, metal fuel rods that contain solid uranium pellets are bombarded with neutrons. The chain reaction that results releases energy and produces more neutrons. The reactor core contains control rods, which are made of a material such as boron or cadmium, that absorb the neutrons to prevent an uncontrolled chain reaction. When the control rods are lowered between the fuel rods, they slow the fission reactions. If the control rods are lowered completely, they prevent fission and shut down the reactor.

The heat released during nuclear reactions is used to generate electricity in the same way that power plants burn fossil fuels to generate electricity. In a nuclear power plant, energy released from the fission reactions heats a closed loop of water that heats another body of water. As the water boils, it produces steam that drives a steam turbine, which is used to generate electricity.

IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about the main idea.

Read each question and write the answer in the space provided.

1. What must metal fuel rods inside a nuclear reactor be bombarded with in order to start a chain reaction?

2. List two materials that can absorb neutrons.

RECOGNIZING CAUSE AND EFFECT

One reading skill is the ability to recognize cause and effect.

Read each question and write your answer in the space provided.

3. How can a chain reaction be controlled?

4. What happens when the control rods in a reactor core are completely lowered between the fuel rods?

Active Nuclear Energy Answer Key

Ying Liu

Active Nuclear Energy Answer Key:

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