

## **Nuclear Power Quiz PDF**

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Which of the following are types of nuclear waste? (Select all that apply)
<ul><li>□ Low-level waste</li><li>□ Intermediate-level waste</li><li>□ High-level waste</li><li>□ Renewable waste</li></ul>
Which country experienced the Fukushima nuclear disaster in 2011?
O United States
○ Russia
○ Japan
○ Germany
What is the primary process used in nuclear power plants to generate energy?  Nuclear Fusion Nuclear Fission Combustions Photosynthesis
What are the stages of the nuclear fuel cycle? (Select all that apply)
☐ Mining
Enrichment
Combustions
Waste Management
Which of the following are types of nuclear reactors? (Select all that apply)
☐ Pressurized Water Reactor (PWR)
☐ Boiling Water Reactor ( BWR)



☐ Solar Reactor
☐ Fast Breeder Reactor
What were the main causes and consequences of the Chernobyl nuclear disaster?
What are some safety measures used in nuclear power plants? (Select all that apply)
Control Rods
Containment Structures
Solar Panels
☐ Emergency Cooling Systems
What is the main element used as fuel in most nuclear reactors?
○ Thorium
○ Plutonium
○ Uranium
○ Hydrogen
Which component of a nuclear reactor is responsible for slowing down neutrons?
○ Control Rods
○ Coolant
○ Moderator
○ Fuel Rods
What is the main purpose of control rods in a nuclear reactor?
What is the main purpose of control rods in a nuclear reactor?  Generate electricity
What is the main purpose of control rods in a nuclear reactor?



What type of nuclear reactor uses water as both a coolant and a neutron moderator?
Fast Breeder Reactor     Pressurized Water Reactor (PWR)
<ul><li>○ Liquid Metal Reactor</li><li>○ Gas-Cooled Reactor</li></ul>
Which innovations are being developed for the future of nuclear energy? (Select all that apply)
<ul><li>Small Modular Reactors (SMRs)</li><li>Wind Turbine</li></ul>
<ul><li>Next-generation reactors</li><li>Fusion Reactors</li></ul>
Explain the difference between nuclear fission and nuclear fusion.
What are potential environmental impacts of nuclear power? (Select all that apply)
Carbon emissions
Radiation release Thermal pollution
☐ Deforestation
Which international organization is responsible for promoting the peaceful use of nuclear energy?
○ United Nations
International Atomic Energy Agency (IAEA)
<ul><li>World Health Organization</li><li>Greenpeace</li></ul>
Which treaty aims to prevent the spread of nuclear weapons?



<ul><li>) Kyoto Protocol</li><li>) Non-Proliferation Treaty (NPT)</li><li>) Paris Agreement</li><li>) Geneva Convention</li></ul>	
escribe the role of the International Atomic Energy Agency (IAEA) in nuclear regulation.	
iscuss the challenges associated with nuclear waste management.	<u>/</u>
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ow does uranium enrichment work, and why is it important for nuclear reactors?	
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In what ways can nuclear power contribute to reducing carbon emissions and combating climate change?



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