# Basic Nuclear Energy Facts

Physics · Answer Key · 8 Questions

**1. What element is most commonly used as fuel in commercial nuclear power plants?**

**A) Uranium**
B) Coal
C) Iron
D) Hydrogen

**2. What is the process of splitting a heavy atomic nucleus into smaller parts called?**

A) Nuclear Fusion
**B) Nuclear Fission**
C) Photosynthesis
D) Combustion

**3. Which particle is absorbed by an atomic nucleus to trigger a fission chain reaction?**

A) Electron
B) Proton
**C) Neutron**
D) Photon

**4. What nuclear reaction powers the Sun and other stars by combining light atomic nuclei?**

A) Nuclear Fission
**B) Nuclear Fusion**
C) Radioactive Decay
D) Geothermal Heat

**5. Which famous equation developed by Albert Einstein explains how mass transforms into nuclear energy?**

A) $A = ?r^2$
**B) $E = mc^2$**
C) $F = ma$
D) $V = IR$

**6. What is the white cloud seen rising from the cooling towers of a nuclear power plant?**

A) Smoke from coal
B) Carbon dioxide gas
C) Chemical pollution
**D) Clean water vapor**

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**7. What components are inserted into a nuclear reactor core to absorb neutrons and control the reaction rate?**

**A) Control rods**
B) Solar panels
C) Turbines
D) Fuel pellets

**8. From which specific part of an atom is nuclear energy released?**

A) Electron cloud
B) Outer shell
**C) Atomic nucleus**
D) Valence shell

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