

Nuclear Energy for Kids

Nuclear Energy · Practice Test · 25 Questions

1. What is the name of the tiny building blocks that make up everything in the world?

- A) Atoms
- B) Blocks
- C) Cubes
- D) Legos

2. What is the name of the central part of an atom?

- A) Shell
- B) Nucleus
- C) Layer
- D) Skin

3. Which fuel is most commonly used in nuclear power plants to create energy?

- A) Coal
- B) Wood
- C) Uranium
- D) Oil

4. What do we call the big buildings that use nuclear energy to make electricity?

- A) Power stations
- B) Houses
- C) Factories
- D) Libraries

5. What kind of energy do nuclear power plants produce for our homes?

- A) Wind
- B) Electricity
- C) Solar
- D) Fire

6. What part of the world produces the heat used to boil water in a nuclear plant?

- A) The engine
- B) The reactor
- C) The chimney
- D) The roof

7. When water is heated by nuclear energy, what does it turn into to spin a turbine?

- A) Ice
- B) Rain
- C) Steam
- D) Oil

8. What is the name of the machine that spins to help create electricity?

- A) Turbine
- B) Fan
- C) Wheel
- D) Motor

9. What is the main advantage of nuclear energy compared to burning coal?

- A) It is faster
- B) It is louder
- C) It produces less carbon pollution
- D) It is heavier

10. Nuclear energy is often described as what type of power source?

- A) Low-carbon
- B) Noisy
- C) Manual
- D) Temporary

11. What covers the nuclear reactor to keep the energy inside safe?

- A) A paper bag
- B) A thick concrete dome
- C) A wooden fence
- D) A plastic sheet

12. Which natural resource is kept very cold or pumped around to keep the reactor at the right temperature?

- A) Sand
- B) Water
- C) Sugar
- D) Dirt

13. Where is the heat generated inside a nuclear power plant?

- A) In the cafeteria
- B) In the cooling tower
- C) In the reactor core
- D) In the office

14. What is the process called where an atom's center is split to release energy?

- A) Fission
- B) Melting
- C) Freezing
- D) Breaking

15. What do we call the electricity that travels from the power plant to your home?

- A) Batteries
- B) Power grid
- C) Sunlight
- D) Wind

16. Which of these is a way nuclear technology is used in hospitals?

- A) Making toast
- B) Taking X-rays
- C) Cleaning floors
- D) Painting walls

17. Are nuclear power plants usually built near a source of water?

- A) Yes, for cooling
- B) No, they hate water
- C) Only in the desert
- D) They don't need water

18. What is the name of the tiny particles inside an atom that orbit the center?

- A) Electrons
- B) Stars
- C) Dust
- D) Seeds

19. How long can a single pellet of nuclear fuel provide energy?

- A) Five minutes
- B) A very long time
- C) Only one hour
- D) One day

20. What happens to the amount of energy released by a nuclear reaction?

- A) It is very large
- B) It is tiny
- C) It is invisible
- D) It is silent

21. What do scientists wear to stay safe when working near nuclear materials?

- A) Sunglasses
- B) Protective suits
- C) Swimsuits
- D) Raincoats

22. Does a nuclear power plant burn fuel like a campfire?

- A) Yes
- B) No, it uses fission
- C) Sometimes
- D) Only at night

23. What part of the power plant looks like a giant chimney and releases water vapor?

- A) Cooling tower
- B) Flag pole
- C) Lightning rod
- D) Slide

24. Is nuclear energy a reliable source that can run 24 hours a day?

- A) Yes
- B) No
- C) Only when it is sunny
- D) Only when it is windy

25. What is the primary goal of a nuclear power plant?

- A) To produce electricity
- B) To make toys
- C) To grow plants
- D) To store water