

Nuclear Energy for Kids

Nuclear Energy · Answer Key · 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