Quantum Physics for Little Explorers

Quantum Physics · Answer Key · 25 Questions

1. What is the name for the tiniest building blocks that make up everything in the world?

A) Atoms
B) Big rocks
C) Trees
D) Houses

2. What is the center part of an atom called?

A) The core
B) The nucleus
C) The middle
D) The heart

3. Which tiny particles spin around the outside of an atom's center?

A) Electrons
B) Stars
C) Dust
D) Balls

4. What do we call the study of the very smallest things in the universe?

A) Quantum physics
B) History
C) Cooking
D) Painting

5. Are atoms big enough to see with your own eyes?

A) Yes, they are huge
B) Yes, with sunglasses
C) No, they are too tiny
D) Yes, in the dark

6. What is light made of in the world of quantum physics?

A) Tiny packets of energy called photons
B) Water
C) Sugar
D) Cotton

7. Which subatomic particle has a positive electrical charge?

A) Proton
B) Blanket
C) Pillow
D) Cloud

8. Which subatomic particle has no electrical charge at all?

A) Neutron
B) Balloon
C) Sun
D) Moon

9. What is the word used to describe the tiny, jumpy nature of energy in quantum physics?

A) Quantum
B) Slow
C) Big
D) Heavy

10. Where are protons found inside an atom?

A) In the nucleus
B) In the garden
C) Under the bed
D) In the clouds

11. Can atoms ever stand completely still?

A) No, they are always wiggling
B) Yes, they sleep
C) Yes, when it is cold
D) No, they like to run

12. What is the smallest unit of light called?

A) Photon
B) Ray
C) Flash
D) Glow

13. What do we call the fuzzy cloud-like path that electrons take around the nucleus?

A) Orbitals
B) Race tracks
C) Highways
D) Stairs

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14. If you break an object into smaller and smaller pieces, what is the final piece you reach?

A) Atom
B) Brick
C) Sand
D) Toy

15. What force holds the center of an atom together?

A) Nuclear force
B) Gravity
C) Magnetism
D) Magic

16. What is the name for the negatively charged particle in an atom?

A) Electron
B) Proton
C) Neutron
D) Atom

17. Are all atoms in the universe the same size?

A) No, they vary in size
B) Yes, always
C) Yes, like marbles
D) No, they are all giant

18. What is the primary substance that makes up the air you breathe?

A) Atoms and molecules
B) Water
C) Dirt
D) Fire

19. Do atoms make up the stars in the sky?

A) Yes
B) No
C) Only the small ones
D) Only the big ones

20. Can two electrons occupy the same space at the same time?

A) No
B) Yes
C) Only on Sundays
D) Only if they are red

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21. What happens to the movement of atoms when things get very cold?

A) They slow down
B) They speed up
C) They explode
D) They turn into light

22. What is the plural of the word 'atom'?

A) Atoms
B) Atomes
C) Atomies
D) Atomos

23. Are molecules made of more than one atom?

A) Yes
B) No
C) Only sometimes
D) Never

24. What branch of science focuses on how atoms and subatomic particles interact?

A) Quantum mechanics
B) Geography
C) Biology
D) Music

25. Is the study of quantum physics used to build modern computers?

A) Yes
B) No
C) Only old ones
D) Only calculators

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