

Physics Terms Study Sheet 6

1. tunneling A quantum mechanical phenomenon where particles move through a barrier.
2. ultraviolet Electromagnetic radiation with a wavelength shorter than that of visible light.
3. uncertainty principle The principle that it is impossible to know both the position and momentum of a particle with absolute precision.
4. vacuum A space devoid of matter.
5. velocity The speed of something in a given direction.
6. virtual particle A particle that exists for a limited time during interactions between real particles.
7. voltage The electric potential difference between two points.
8. watt The unit of power in the International System of Units.
9. wave A disturbance that travels through a medium.
10. wave-particle duality The concept that every particle or quantum entity exhibits both wave and particle properties.
11. wavelength The distance between successive crests of a wave.
12. weak force One of the four fundamental forces of nature, responsible for radioactive decay.
13. weight The force exerted on a body by gravity.
14. work The product of force and displacement.
15. wormhole A hypothetical tunnel connecting two separate points in space-time.
16. x-ray A form of electromagnetic radiation.
17. Young Scientist known for his double-slit experiment.
18. Zeeman Effect observed in the splitting of spectral lines in the presence of a magnetic field.
19. zero-point energy The lowest possible energy that a quantum mechanical system may have.
20. z boson A particle that mediates the weak nuclear force.