

# Physics Terms Crossword Puzzle 6-1

1. Using the Across and Down clues, write the correct answer in the numbered grid below.

## ACROSS

2. The principle that it is impossible to know both the position and momentum of a particle with absolute precision.
4. A space devoid of matter.
5. The lowest possible energy that a quantum mechanical system may have.
7. A particle that mediates the weak nuclear force.
8. The force exerted on a body by gravity.
13. The distance between successive crests of a wave.
14. Electromagnetic radiation with a wavelength shorter than that of visible light.
16. Scientist known for his double-slit experiment.
17. The concept that every particle or quantum entity exhibits both wave and particle properties.
18. One of the four fundamental forces of nature, responsible for radioactive decay.

## DOWN

1. Effect observed in the splitting of spectral lines in the presence of a magnetic field.
3. The product of force and displacement.
4. A particle that exists for a limited time during interactions between real particles.
6. A quantum mechanical phenomenon where particles move through a barrier.
9. A disturbance that travels through a medium.
10. The speed of something in a given direction.
11. A form of electromagnetic radiation.
12. A hypothetical tunnel connecting two separate points in space-time.
15. The electric potential difference between two points.
17. The unit of power in the International System of Units.

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velocity

watt

voltage

x-ray

weak force

Zeeman

tunneling

uncertainty principle

wave-particle duality

wormhole

zero-point energy

z boson

weight

vacuum

ultraviolet

virtual particle

wave

wavelength

work

Young