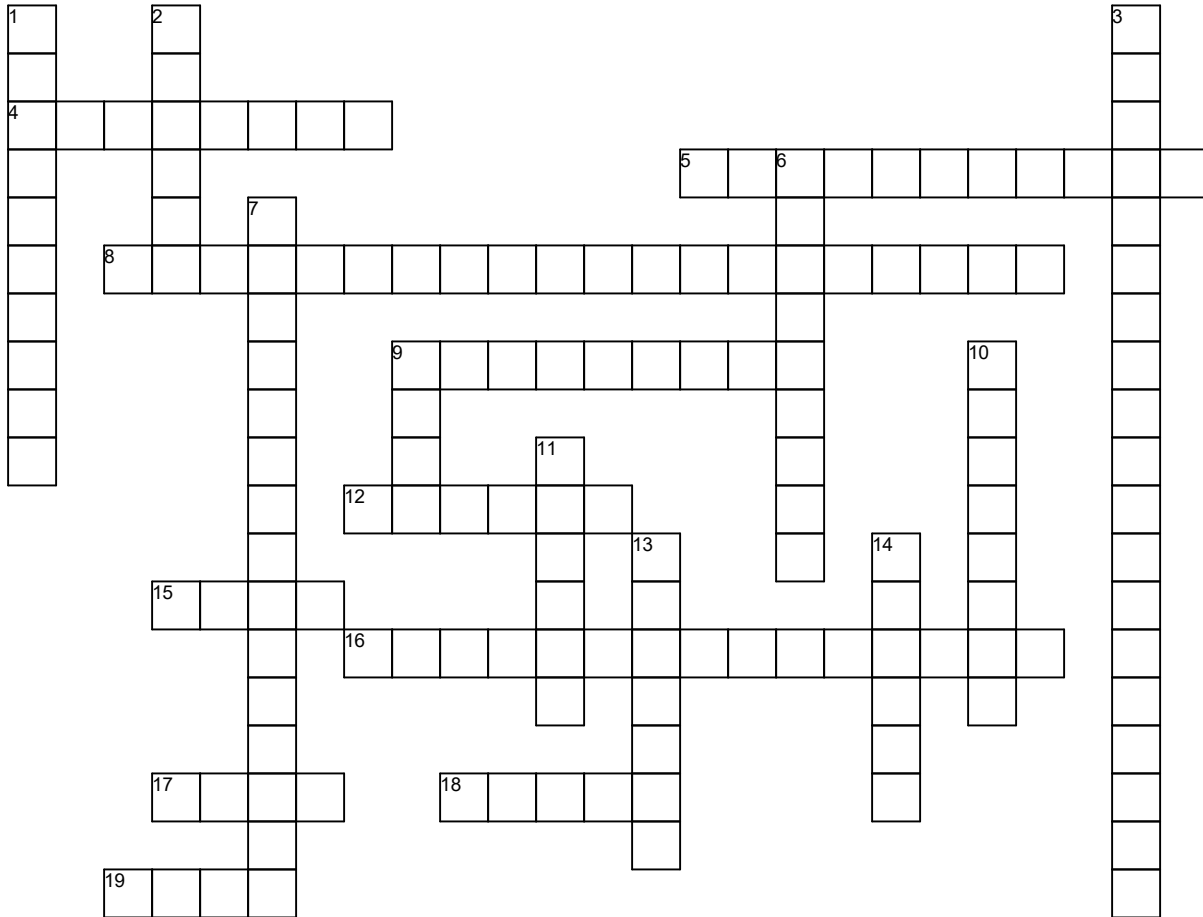


# Physics Terms Crossword Puzzle 6-4

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



## ACROSS

4. The speed of something in a given direction.
5. Electromagnetic radiation with a wavelength shorter than that of visible light.
8. The principle that it is impossible to know both the position and momentum of a particle with absolute precision.
9. One of the four fundamental forces of nature, responsible for radioactive decay.
12. Effect observed in the splitting of spectral lines in the presence of a magnetic field.
15. The unit of power in the International System of Units.
16. A particle that exists for a limited time during interactions between real particles.
17. The product of force and displacement.
18. Scientist known for his double-slit experiment.
19. A form of electromagnetic radiation.

## DOWN

1. The distance between successive crests of a wave.
2. A particle that mediates the weak nuclear force.
3. The concept that every particle or quantum entity exhibits both wave and particle properties.
6. A quantum mechanical phenomenon where particles move through a barrier.
7. The lowest possible energy that a quantum mechanical system may have.
9. A disturbance that travels through a medium.
10. A hypothetical tunnel connecting two separate points in space-time.
11. A space devoid of matter.
13. The electric potential difference between two points.
14. The force exerted on a body by gravity.

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wave-particle duality

velocity

uncertainty principle

virtual particle

wavelength

wave

vacuum

Young

tunneling

watt

wormhole

x-ray

ultraviolet

Zeeman

zero-point energy

work

weak force

z boson

voltage

weight