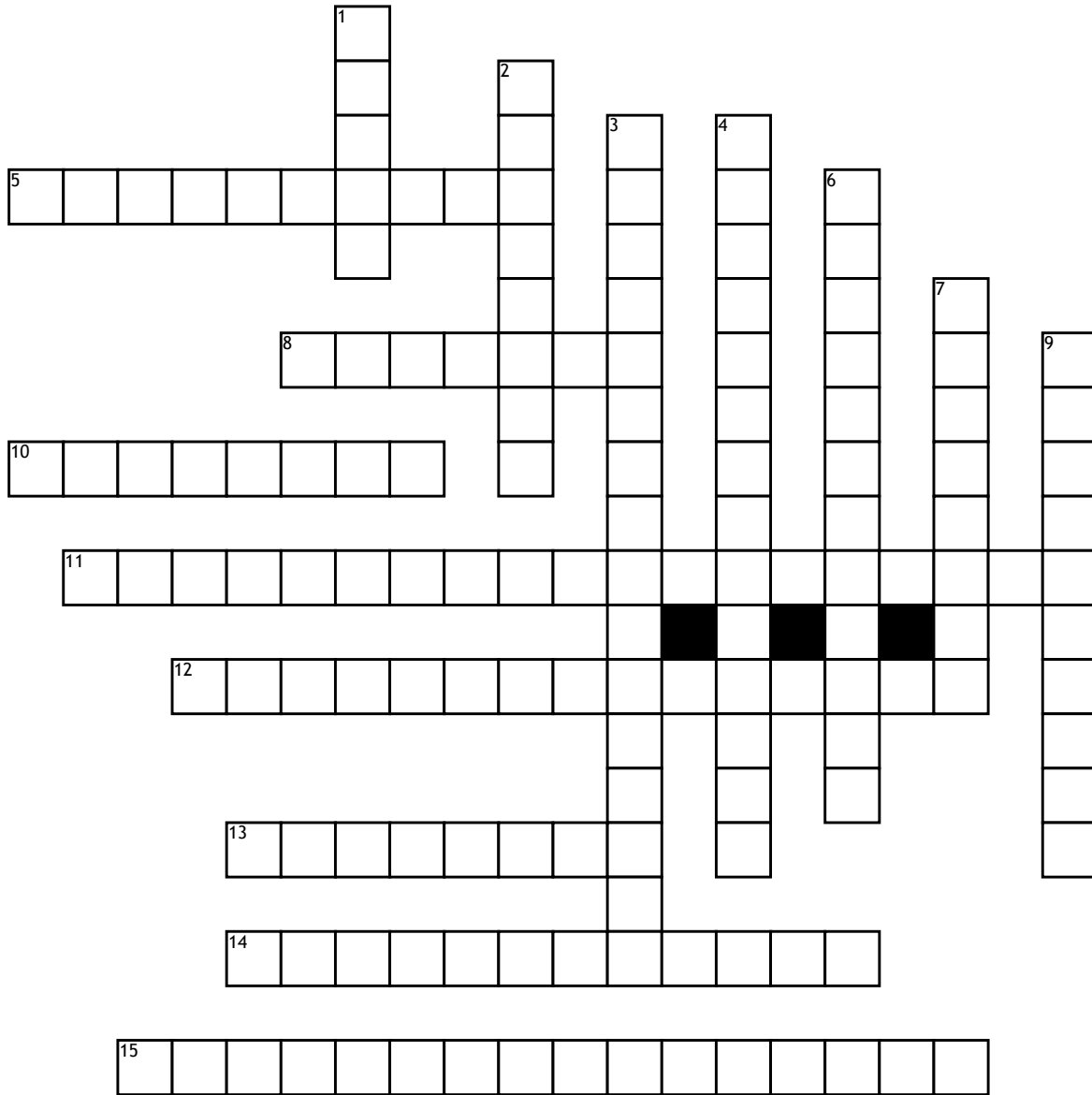


# Physics



**Across**

- 5. An educated guess.
- 8. the intellectual and practical activity encompassing the systematic study of the structure and behavior of the physical and natural world through observation and experiment.
- 10. any motion of a body where gravity is the only force acting upon it.
- 11. a type of motion in which the velocity of an object changes by an equal amount in every equal time period.

12. The average speed and direction of an object

- 13. How far and what direction you are from the reference point in a frame of reference.
- 14. How far and what direction you've gone from the initial position
- 15. a way of problem-solving by making a hypothesis and then testing it, a way of thinking that values observation and data.

**Down**

1. being a scalar quantity, is the rate at which an object covers distance.

2. The amount of space between two objects

- 3. Something you use to compare motion to
- 4. The zero point in your frame of reference
- 6. The speeding up or slowing down of something
- 7. a vector quantity (it has both magnitude and direction), and is the time rate of change of position (of an object).
- 9. The science of matter and energy, and their properties and interactions in fields.