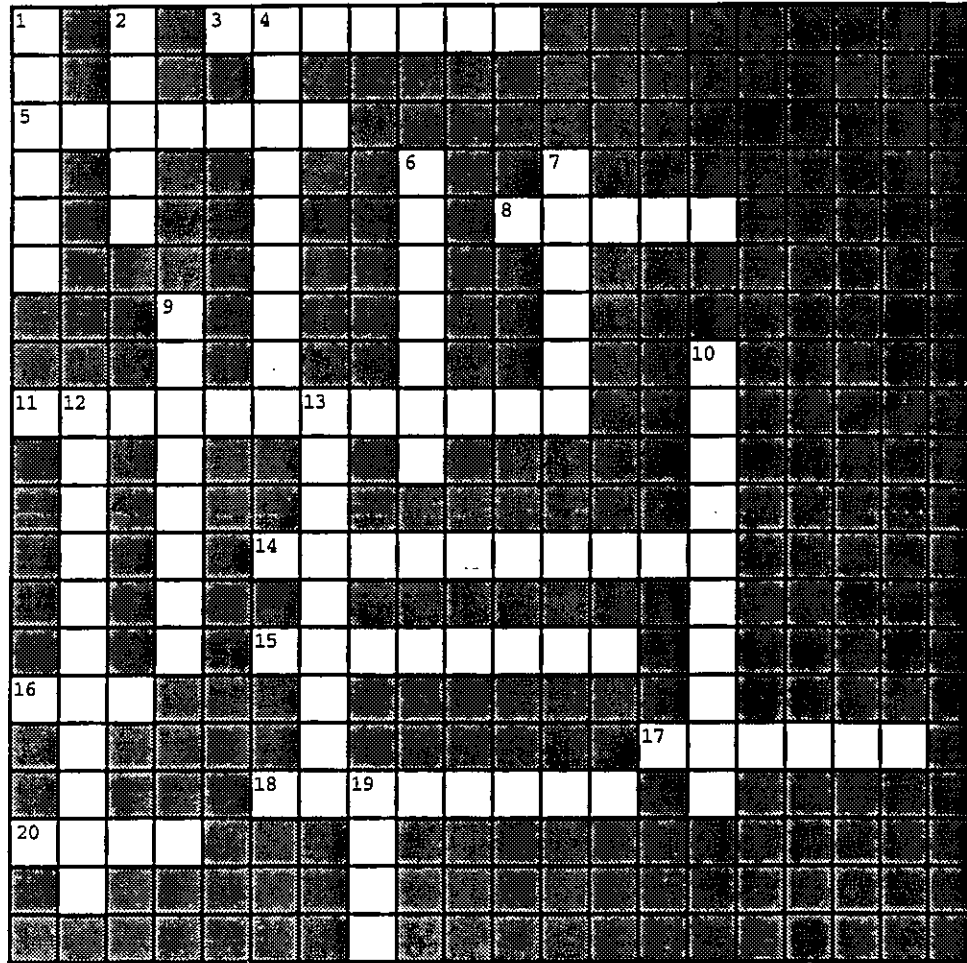


# Motion: Newton's Three Laws Crossword Puzzle



## ACROSS

3. Performed many experiments to measure the rate at which objects fall.
5. Newton's law of \_\_\_\_\_ states that an object's motion does not change unless a force acts upon it.
8. An object at rest will remain at rest until it is set into motion by an outside \_\_\_\_\_.
11. A measure of the rate at which the velocity of an object changes.
14. The reason we observe different rates of acceleration in objects is due to wind \_\_\_\_\_.
15. No force in nature exists without its equal and opposite \_\_\_\_\_ force.
16. Miles Per Hour
17. Wrote a book called Principia explaining the laws governing motion.
18. An object's speed and direction.
20. The early Greeks believed that objects with more \_\_\_\_\_ would fall faster than smaller objects.

## DOWN

1. Pounds, kilos, and ounces are measurements of what?
2. The measurement of the distance an object moves in a given amount of time.
4. Greek philosopher who proposed that the speed at which an object falls is proportional to its mass.
6. A rock falls to earth due to what?
7. A change in an object's position.
9. Force measured over an area.
10. A measurement of a car's power.
12. Inward force necessary for circular motion to occur.
13. Motion is relative to an observer's frame of \_\_\_\_\_.
19. Newton's three \_\_\_\_\_ of motion help explain the movement of objects.