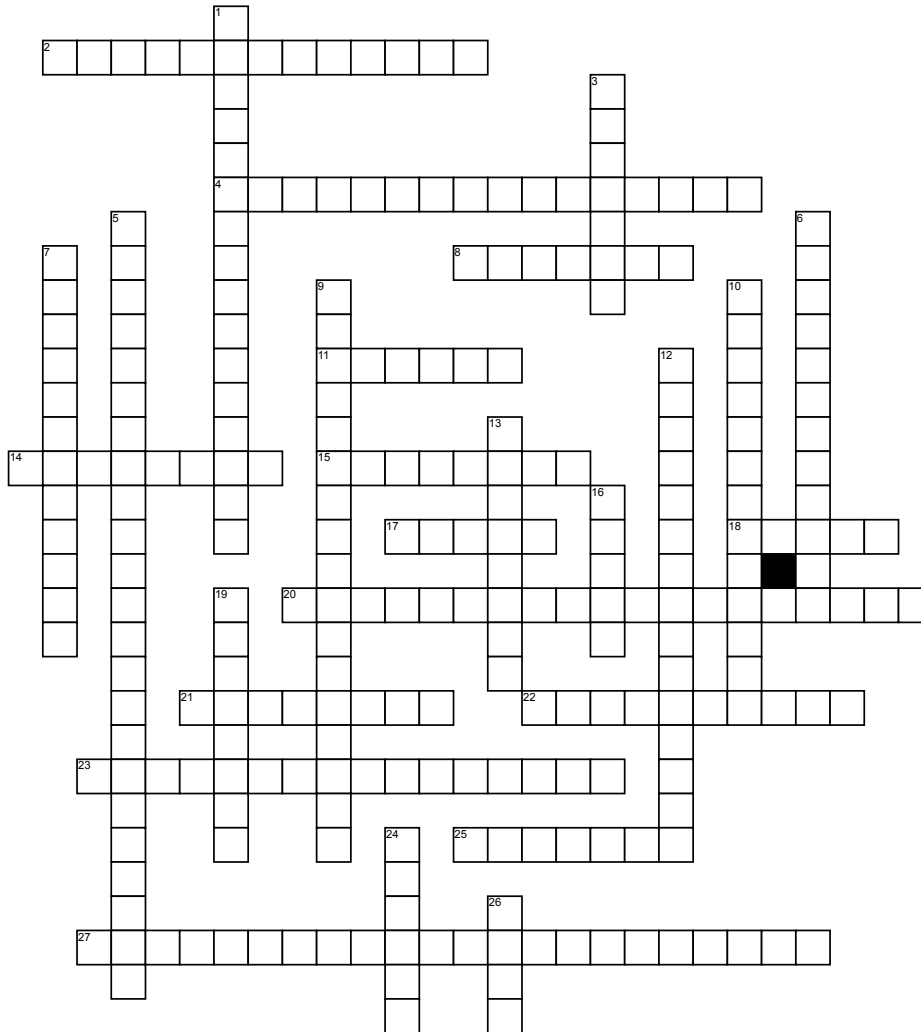


# Science Vocabulary



## Across

2. Machine that does work with only one movement of the motion  
 4. When an object exerts a force on a second object, the second object exerts a force on the first object  
 8. An attractive force between all objects that have mass  
 11. Gravitational force exerted on an object  
 14. When gravity is the only force acting on an object  
 15. The combination of all the forces acting on an object  
 17. A push or a pull exerted on an object  
 18. The rate at which an object's position changes  
 20. Ratio of the output force to input force

21. The product of an object's mass and velocity  
 22. The ratio of output work to input work  
 23. The maximum speed an object will reach when falling through a substance  
 25. A device that changes the force or increases the motion from work  
 27. Objects exert forces only on each other

## Down

1. The motion of an object at rest or moving with constant velocity will not change unless and unbalanced force acts on the object  
 3. The tendency of an object to resist a change in motion  
 5. Acceleration toward the center of a curved or circular path  
 6. The distance and direction of a change in position from the starting point

7. The rate of change in velocity  
 9. The acceleration of an object depends on its mass and the net force exerted on it  
 10. A force that opposes an object's motion through the air  
 12. Combination of two or more simple machines  
 13. The force that opposes the sliding motion of two surfaces that are in contact  
 16. A region of space in which every point has a physical quantity, such as force  
 19. An object's speed and its direction of motion relative to a reference point  
 24. Occurs when an object changes its position relative to a reference point  
 26. Transfer of energy when a force is applied over a distance (measured in joules)

## Word Bank

Acceleration	Newton's Third Law	Motion	Air resistance
Centripetal Acceleration	Force	Gravity	Efficiency
Weight	Work	Momentum	Inertia
Free Fall	Friction	Velocity	Simple Machine
Terminal Velocity	Mechanical Advantage	Conservation of Momentum	Speed
Newton's Second Law	Field	Displacement	Net force
Compound Machine	Newton's First Law	Machine	