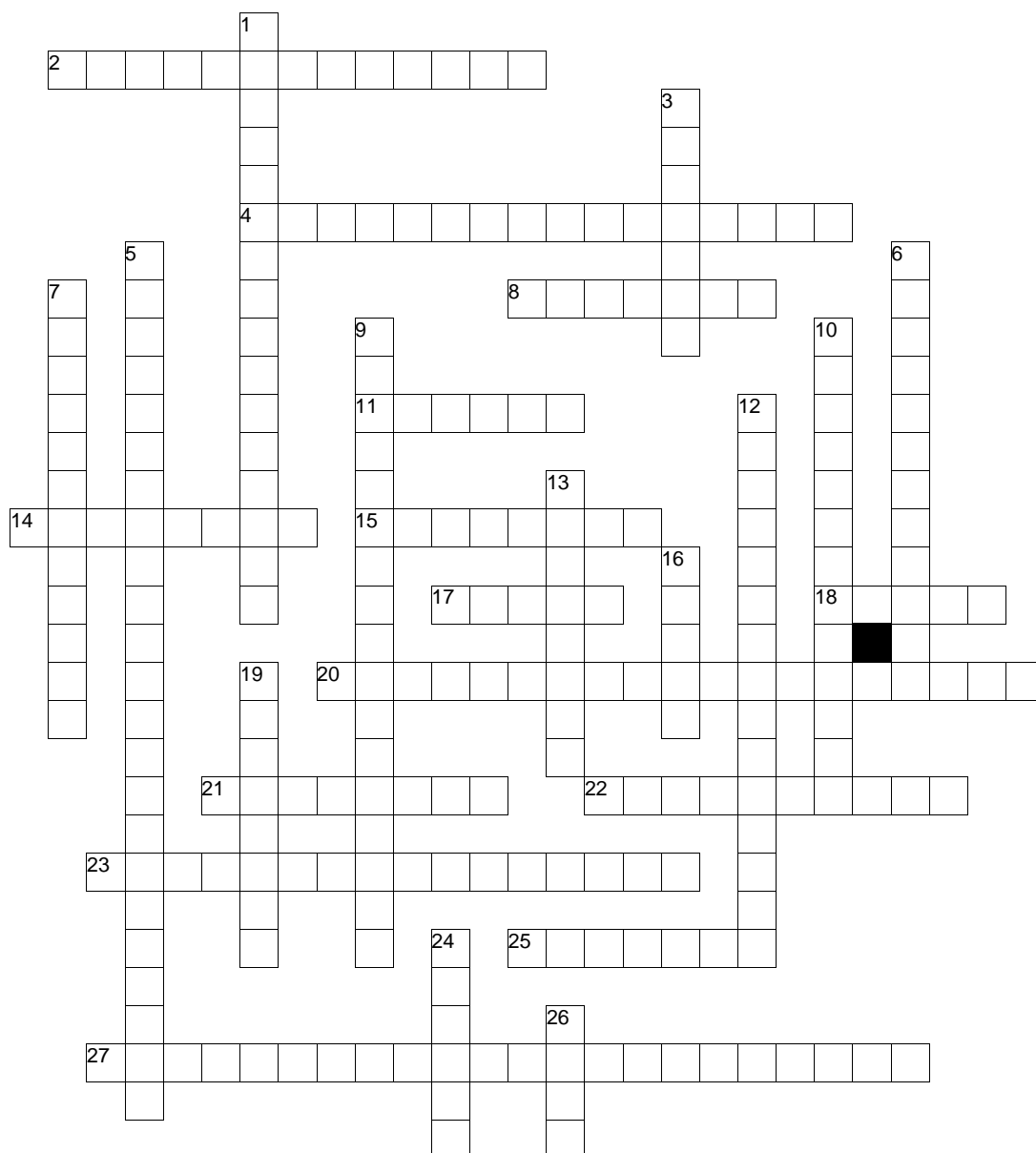


Name: _____

Date: _____

Motion and Stability 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 objects 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

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

- 25.** A device that changes the force or increases the motion from work
- 27.** Objects exert forces only on each other
- 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)

Use the Word Bank below to complete the Crossword Puzzle.

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