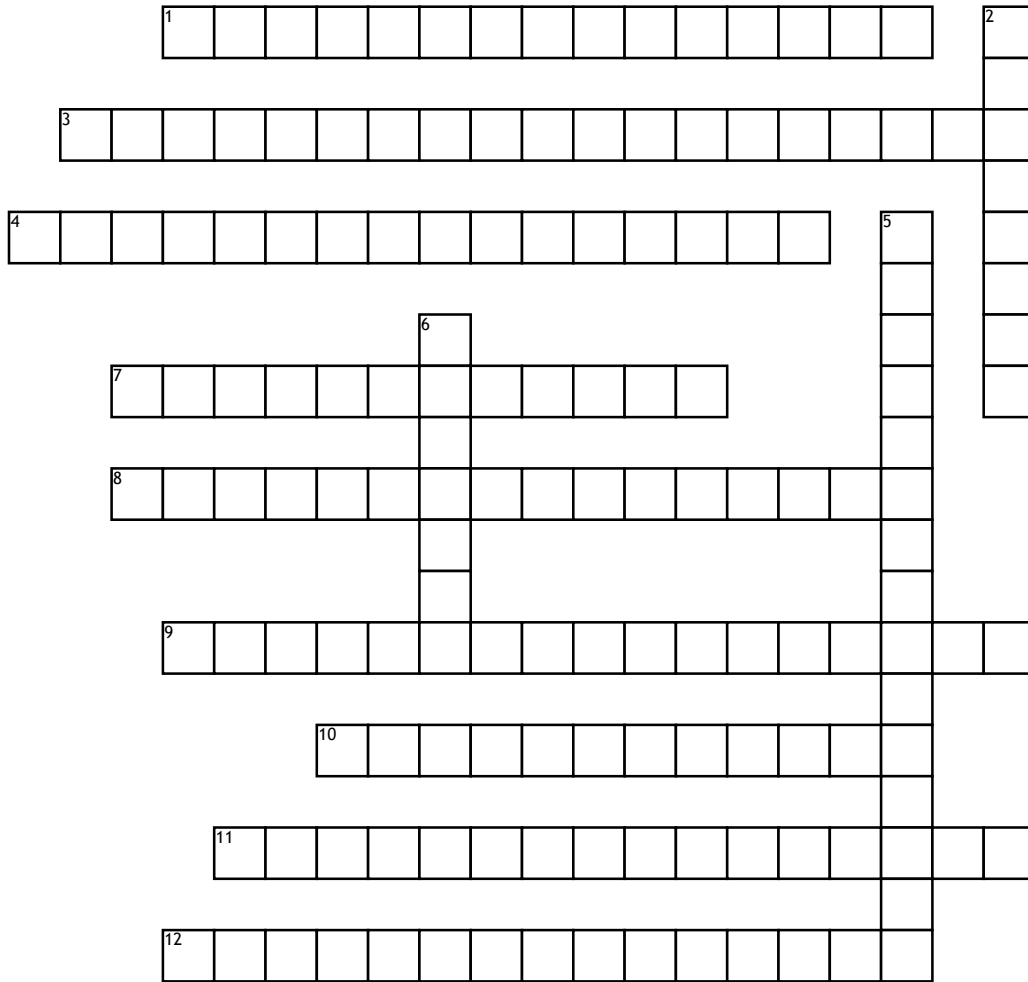


Name: _____

Date: _____

Dynamics



Across

- 1. another name for center of mass
- 3. another name for Newton's third law
- 4. the greatest velocity a falling object reaches
- 7. another name for Newton's first law

- 8. the law that states that the force of gravity depends on the mass and distance between the objects
- 9. another name for Newton's second Law
- 10. point in a object that moves as if all of the object's mass were concentrated at that point
- 11. Force = mass x acceleration
- 12. For every action there is an equal and opposite reaction

Down

- 2. The study of why objects move
- 5. An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force.
- 6. the tendency of an object to resist any change in its motion

Word Bank

Law of Inertia
center of gravity
Newton's Second Law
Law of Gravitation

Dynamics
Law of Acceleration
Law of Action-Reaction
Newton's First Law

Newton's Third Law
Inertia
terminal velocity
center of mass