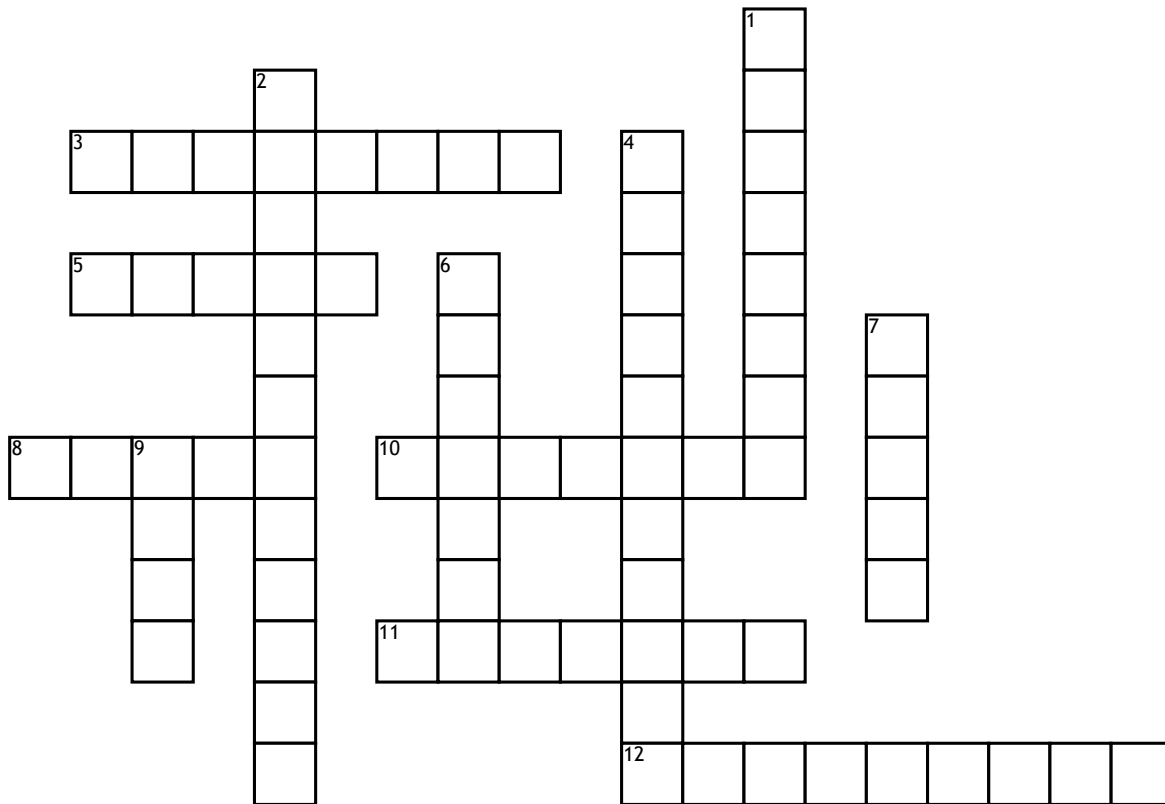


Forces in Motion Vocabulary



Across

3. the force that results when two materials rub against each other

5. how far an object moves during a certain amount of time

8. the rate at which work is done

10. a force from one object that pulls other objects toward its center without ever touching them (think of an apple falling from a tree)

11. a device that changes the direction or the amount of force needed to do work

12. a force that pushes and pulls on other objects (such as iron, cobalt, nickel, and gadolinium)

Down

1. the speed and the direction of an object's motion

2. the rate at which the velocity of an object changes over time

4. an object is in this state when all the forces acting on it balance each other

6. the tendency of an object to resist any change in motion

7. a push or pull that acts on an object

9. this is done when a force moves an object (to calculate, multiply force times distance)