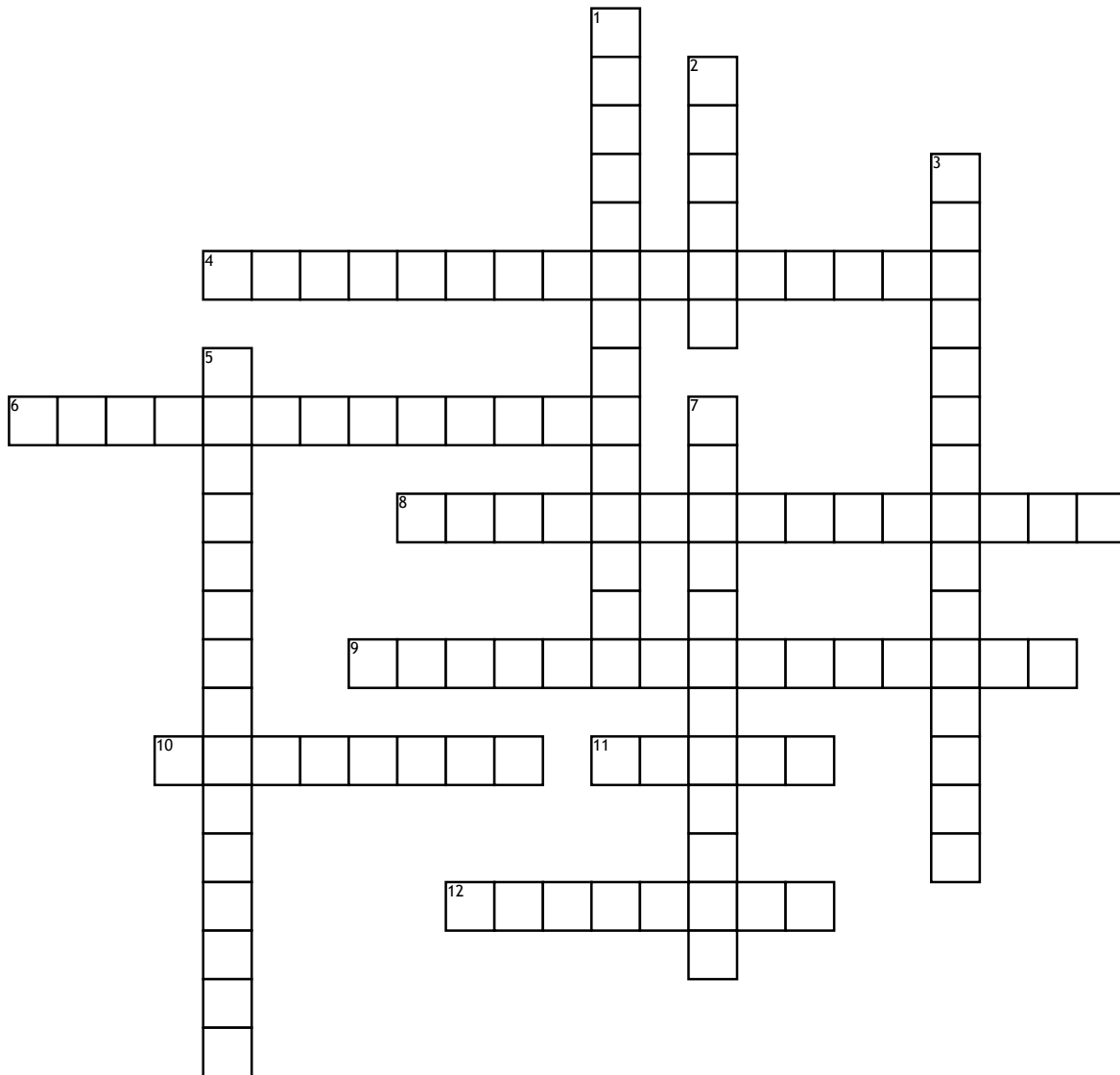


# Physical Science



## Across

4. the acceleration of an object is dependent upon two variables - the net force acting upon the object and the mass of the object.  
 6. forces acting in opposite directions on an object, and equal in size  
 8. an object will remain at rest or in uniform motion in a straight line unless acted upon by an external force.

9. the energy possessed by a body by virtue of its position relative to others, stresses within itself, electric charge, and other factors.

10. the speed of something in a given direction.

11. the rate at which someone or something is able to move or operate.

12. the full length something travels

## Down

1. a point used to find or describe the location of something

2. a quantity having direction as well as magnitude, especially as determining the position of one point in space relative to another.

3. For every action, there is an equal and opposite reaction.

5. forces that cause a change in the motion of an object

7. the moving of something from its place or position.