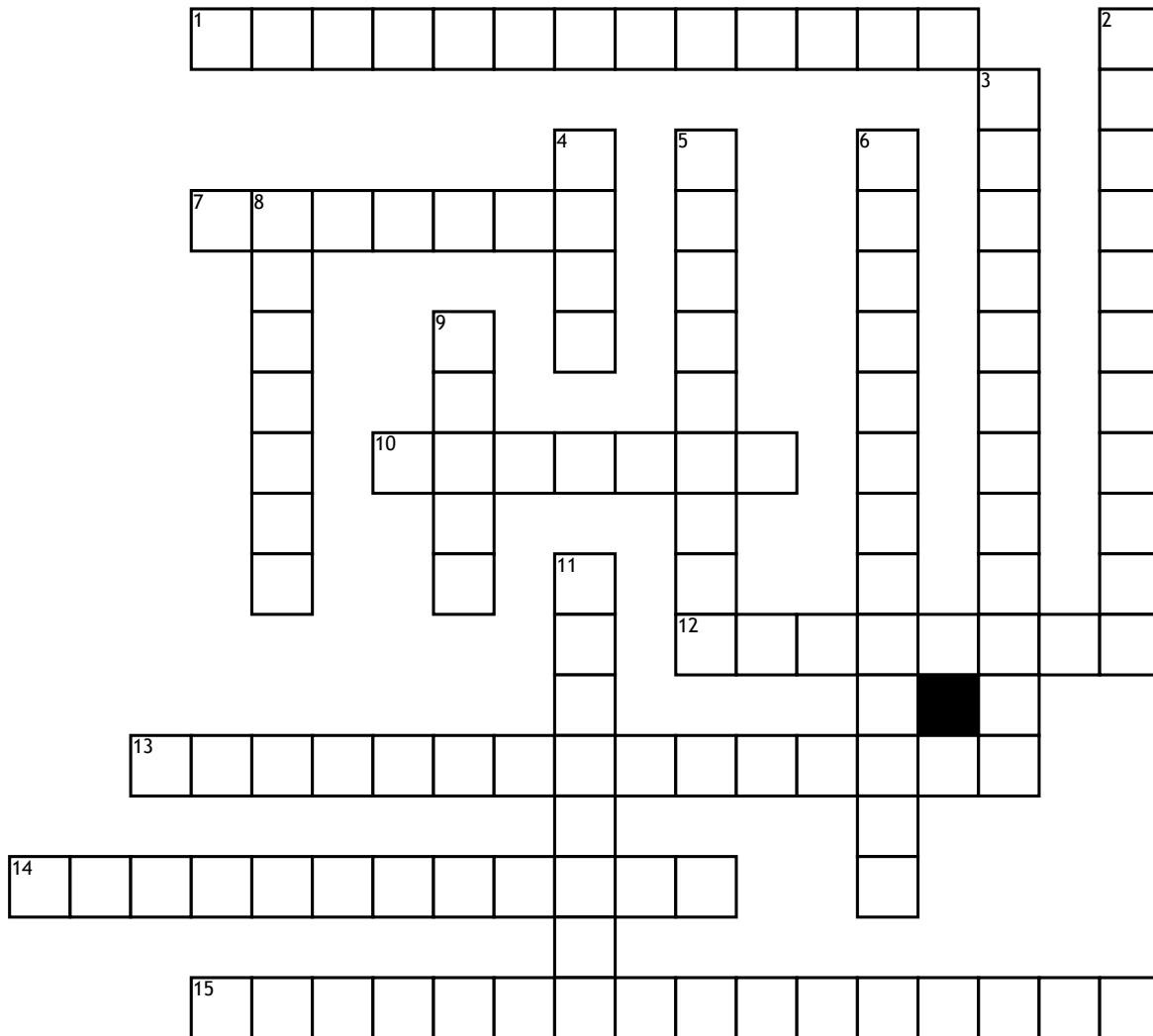


# Science Crossword Puzzle



## Across

1. An object at rest stays at rest and an object in motion stays in motion with the same speed in the same direction unless acted upon by an unbalanced force  
 7. The ability to keep what it is doing based on mass  
 10. The force pulling to the center of the Earth  
 12. the overall force acting on an object.  
 13. The state of forces when accelerating

14. The movement from an object caused by an unbalanced force

15. When something moves in the same direction and the same speed throughout

## Down

2. the component, perpendicular to the surface of contact, of the contact force exerted on an object  
 3. the force that is transmitted through a string, rope, cable or wire when it is pulled tight by forces acting from opposite ends.

4. the quantity of matter in a body regardless of its volume or of any forces acting on it.

5. The way something is facing or moving to

6. The state of forces at a constant velocity

8. Units of Force

9. A push or pull.  $F=ma$

11. the resistance that one surface or object encounters when moving over another.