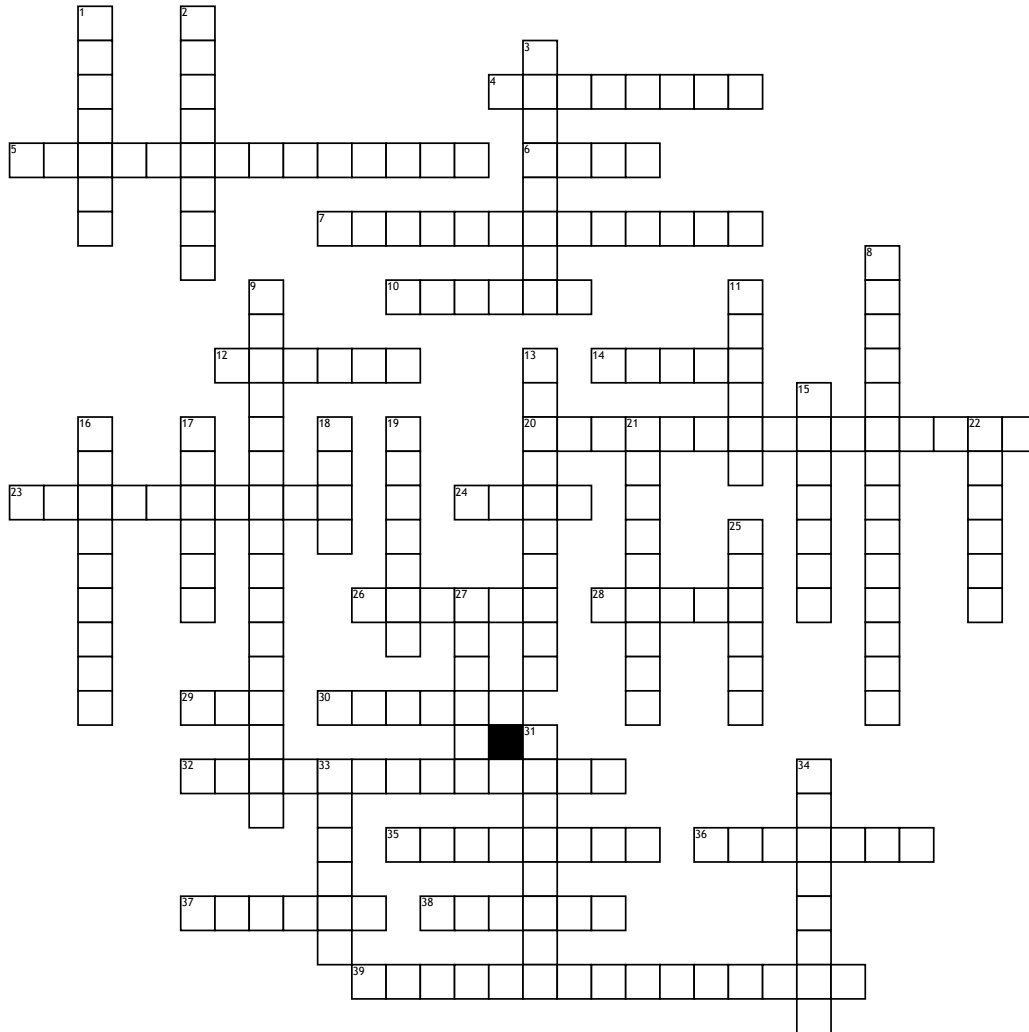


Science Forces (Chapter 10)



Across

4. For every action there is an equal and opposite
 5. Friction that acts on objects that are not moving
 6. free
 7. friction that occurs as an object moves through a fluid
 10. A force of attraction between objects that is due to their
 12. A measure of the gravitational force exerted on an
 14. A push or a pull
 20. friction that occurs when one solid surface slides over another
 23. air
 24. laws of conservation of
 26. SI unit of force
 28. An object at rest remains at rest, and an object in motion remains in motion at constant speed and in a straight line unless acted on by an unbalanced
 29. Fluid friction acting on an object moving through the
 30. The tendency of an object to resist a change in
 32. The total energy of motion in the particles of a substance (heat energy)

Word Bank

- | | | | | | | |
|-----------|-----------------|-----------------|-----------|------------------|------------------|-------------------|
| object | gravity | does | net force | motion | Motion | thrown |
| Force | Thermal energy | friction | Motion | motion | air | mass |
| object. | destroyed | fall | force. | Newton | resistance | Friction |
| velocity | surface | balanced forces | achieve | reaction | sliding friction | resistance |
| energy | static friction | fluid friction | Motion | rolling friction | masses. | unbalanced forces |
| destroyed | applied. | energy | velocity | | | |

35. The product of an object's mass and
 36. The greatest velocity a falling object can
 37. Newton's 1st Law of
 38. the energy an object has due to its
 39. friction that occurs when an object rolls over a surface
Down
 1. the number that represents how difficult it is to move something across a
 2. terminal
 3. The sum of all forces acting on an object
 8. forces acting on an object that combine and form a net force of zero
 9. forces acting on an object that combine and form a net force that is not zero
 11. kinetic
 13. air
 15. the motion of a falling object when the only force acting on it is
 16. Energy cannot be created or
 17. Newton's 2nd Law of
 18. increases when velocity

19. The acceleration of an object depends on the mass of the object and the amount of force
 21. states that matter can be neither created nor
 22. the amount of matter in an
 25. conservative
 27. an object that is
 31. A force that opposes motion between two surfaces that are in contact
 33. Newton's 3rd Law of
 34. coefficient of