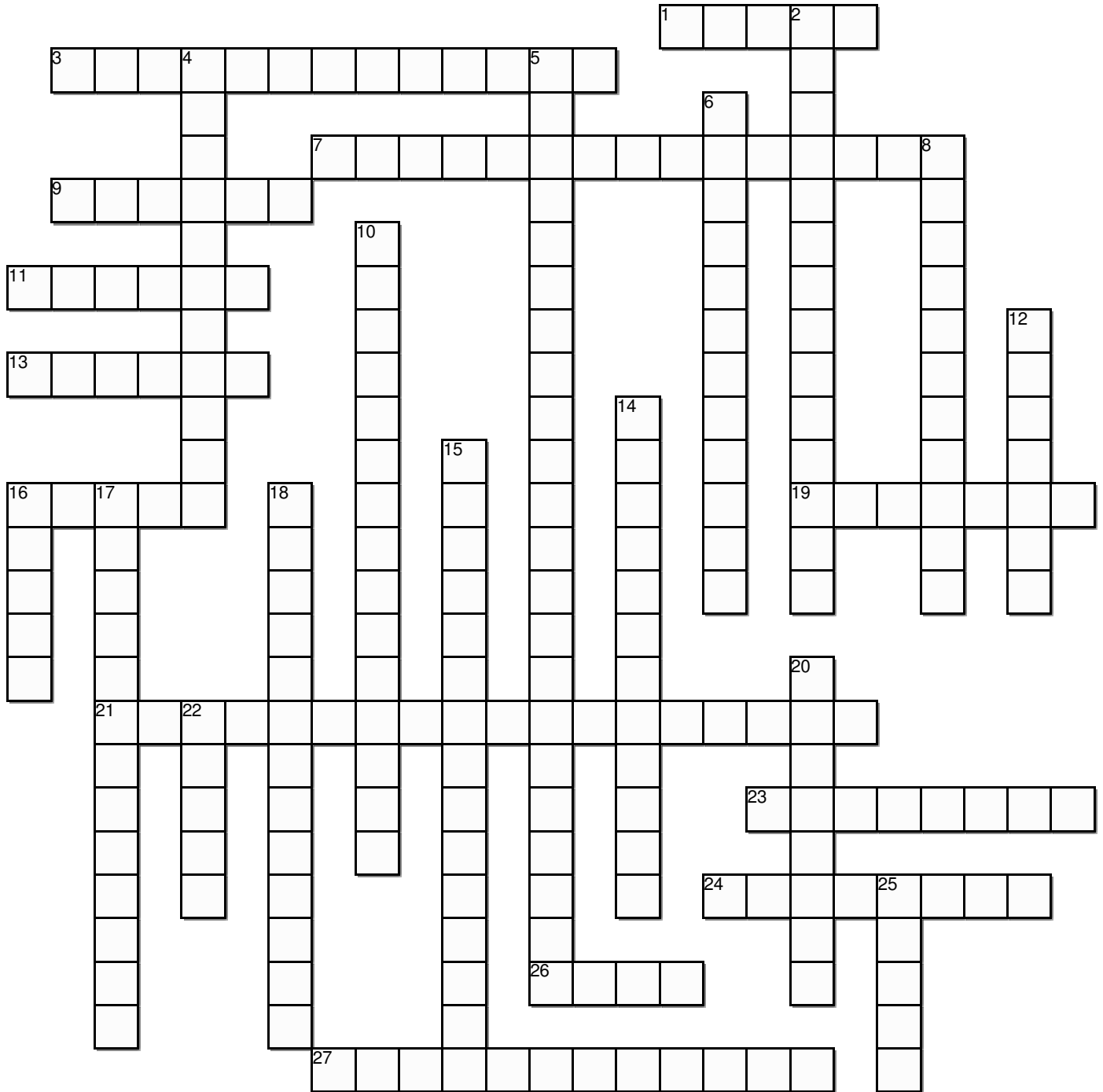


Name: \_\_\_\_\_

# Force and Motion Study Crossword

Use your knowledge of the vocabulary from this unit to complete the crossword puzzle. Hint: When filling in answers that are two or more words, omit the space between the words. Ex: Rolling Friction will be RollingFriction in the puzzle.



Created with [TheTeachersCorner.net](http://TheTeachersCorner.net) Crossword Maker

- Gravity
- Third
- SlidingFriction
- Force
- ReactionForce
- Motion
- ConstantSpeed
- NormalForce
- StaticFriction
- RollingFriction
- Speed
- Displacement
- Second
- UnbalancedForce
- Newton
- First
- ActionForce
- Inertia
- Velocity
- ConservationofMomentum
- Fluid
- Mass
- Friction
- AverageSpeed
- Acceleration

InstantaneousSpeed

BalancedForce

Momentum

**Across**

1. Newton's \_\_\_\_\_ Law states that an object at rest will remain at rest.
3. forces acting on an object that do not change the object's motion.
7. occurs when an object rolls across a surface.
9. continuous change in position of an object.
11. Newton's \_\_\_\_\_ Law states that acceleration depends on the mass of an object.
13. the standard unit of measure for force.
16. using energy to do work. Ex: Pushing or pulling.
19. the tendency of an object to resist a change in motion.
21. the rate at which an object is moving at a given instant in time.
23. mass in motion; the product of an object's mass and velocity.
24. the resistance to motion of one object moving against another.
26. a measure of how much matter is in an object.
27. a change in speed or direction, or both.

**Down**

2. friction between two or more objects that are not moving relative to each other.
4. the force that acts in one direction.
5. The law that states that the amount of momentum is the same before and after interaction.
6. How far out of place an object is; it is the object's overall change in position.
8. the support force exerted upon an object that is in contact with another stable object.
10. occurs when two surfaces slide over each other.
12. force that pulls objects to the center of the earth.
14. the total distance traveled divided by the total time.
15. whenever there is a net force, this is the result.
16. swimmers have to work hard to overcome this type of friction.
17. The force acting in the opposite direction of an action force.
18. speed that does not change.
20. speed in a given direction.
22. the distance an object travels per unit of time.
25. Newton's \_\_\_\_\_ Law states that for every action there is an equal and opposite reaction.