

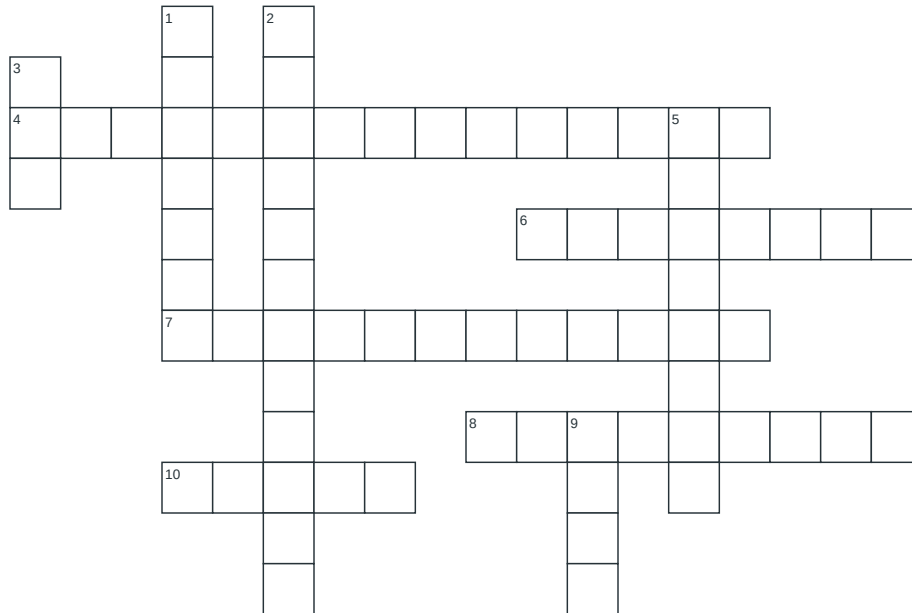
Motion Speed and Acceleration Crossword

Easy | 10 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

4. SI-derived unit commonly used to measure speed or velocity
6. The total length of a traveled path
7. Change in velocity per unit time
8. Orientation of motion, needed to describe a velocity vector
10. Quantity that is a scalar

DOWN

1. Resistance to changes in motion
2. The directed change from initial to final position
3. Relationship that expresses Newton's second law for constant mass
5. The vector sum of all forces acting on an object
9. State in which position does not change relative to a chosen reference point

Motion Speed and Acceleration Crossword

Easy | 10 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

4. Meters Per Second
6. Distance
7. Acceleration
8. Direction
10. Speed

DOWN

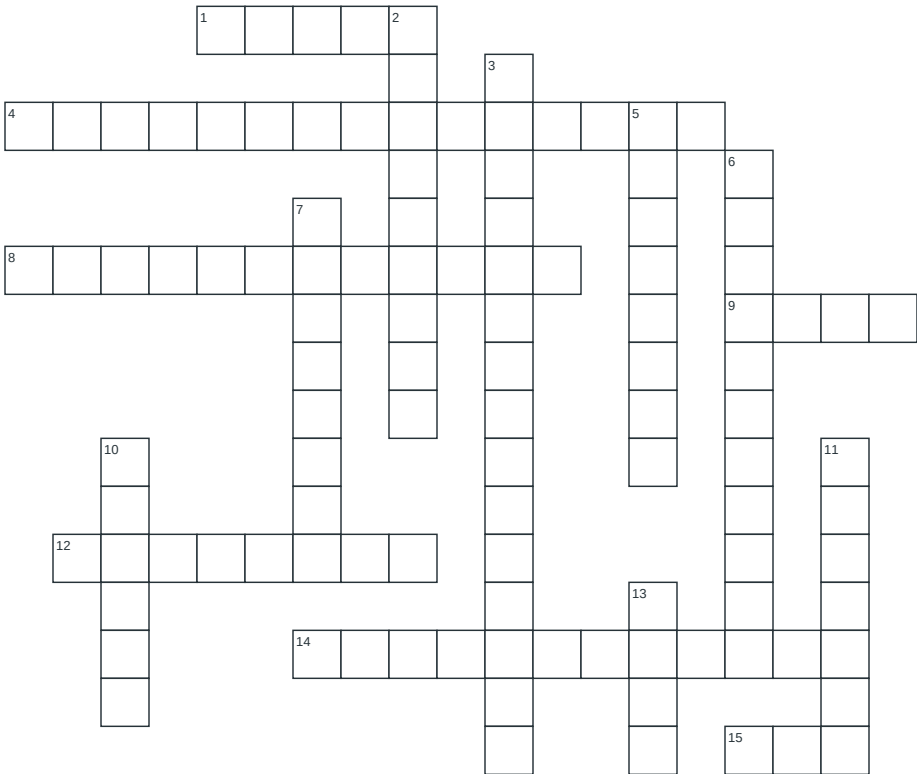
1. Inertia
2. Displacement
3. $F = ma$
5. Net Force
9. Rest

Motion Speed and Acceleration Crossword

Medium | 15 clues | Student Worksheet

Name: _____ Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

- 1. Quantity that is a scalar
- 4. SI-derived unit commonly used to measure speed or velocity
- 8. Change in velocity per unit time
- 9. Measure of the amount of matter in an object.
- 12. The total length of a traveled path
- 14. The directed change from initial to final position
- 15. Relationship that expresses Newton's second law for constant mass

DOWN

- 2. Orientation of motion, needed to describe a velocity vector

DOWN (continued)

- 3. Forces between interacting objects are equal in magnitude and opposite in direction.
- 5. The vector sum of all forces acting on an object
- 6. Force that is a surface's push perpendicular to that surface
- 7. Force that opposes relative motion between surfaces in contact.
- 10. The gravitational force acting on an object
- 11. Resistance to changes in motion
- 13. State in which position does not change relative to a chosen reference point

Motion Speed and Acceleration Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

1. Speed
4. Meters Per Second
8. Acceleration
9. Mass
12. Distance
14. Displacement
15. $F = ma$

DOWN

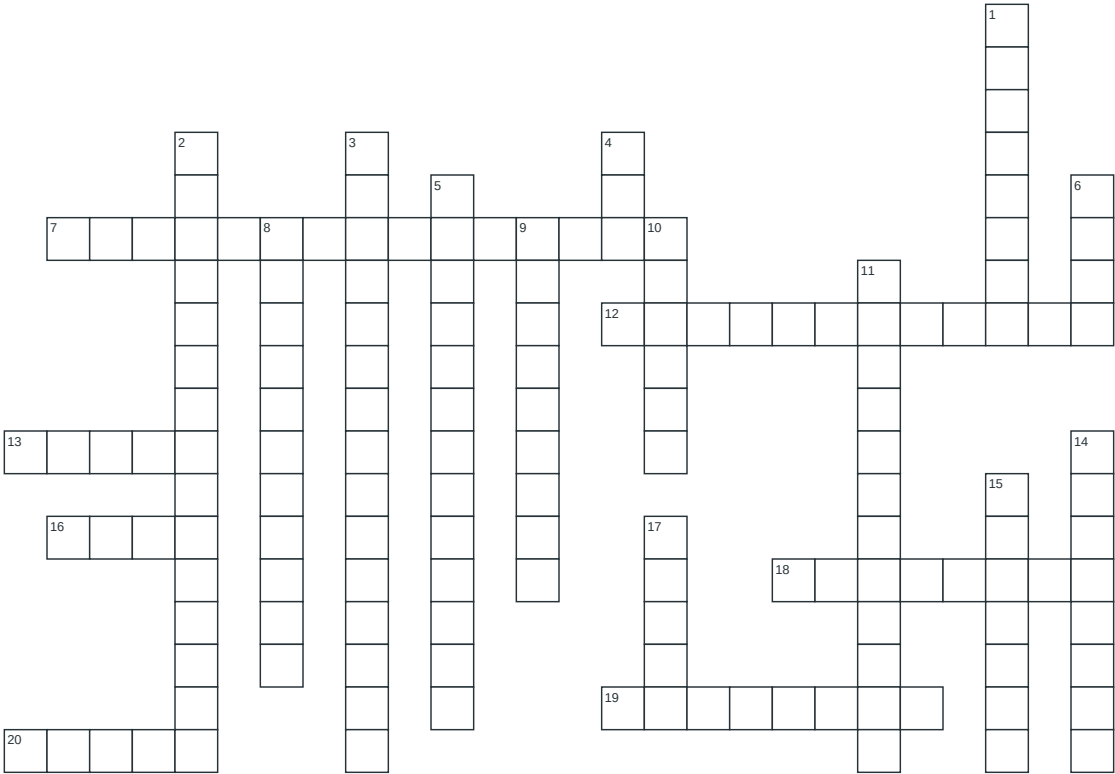
2. Direction
3. Newton's third law
5. Net Force
6. Normal Force
7. Friction
10. Weight
11. Inertia
13. Rest

Motion Speed and Acceleration Crossword

Hard | 20 clues | Student Worksheet

Name: _____ Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

- 7. Forces between interacting objects are equal in magnitude and opposite in direction.
- 12. The directed change from initial to final position
- 13. Definition of the SI unit of energy and work
- 16. Measure of the amount of matter in an object.
- 18. Exerts a force that changes the passenger's motion
- 19. Force that opposes relative motion between surfaces in contact.
- 20. Quantity that is a scalar

DOWN

- 1. The vector sum of all forces acting on an object
- 2. SI-derived unit commonly used to measure speed or velocity
- 3. Energy associated with position in a gravitational field

DOWN (continued)

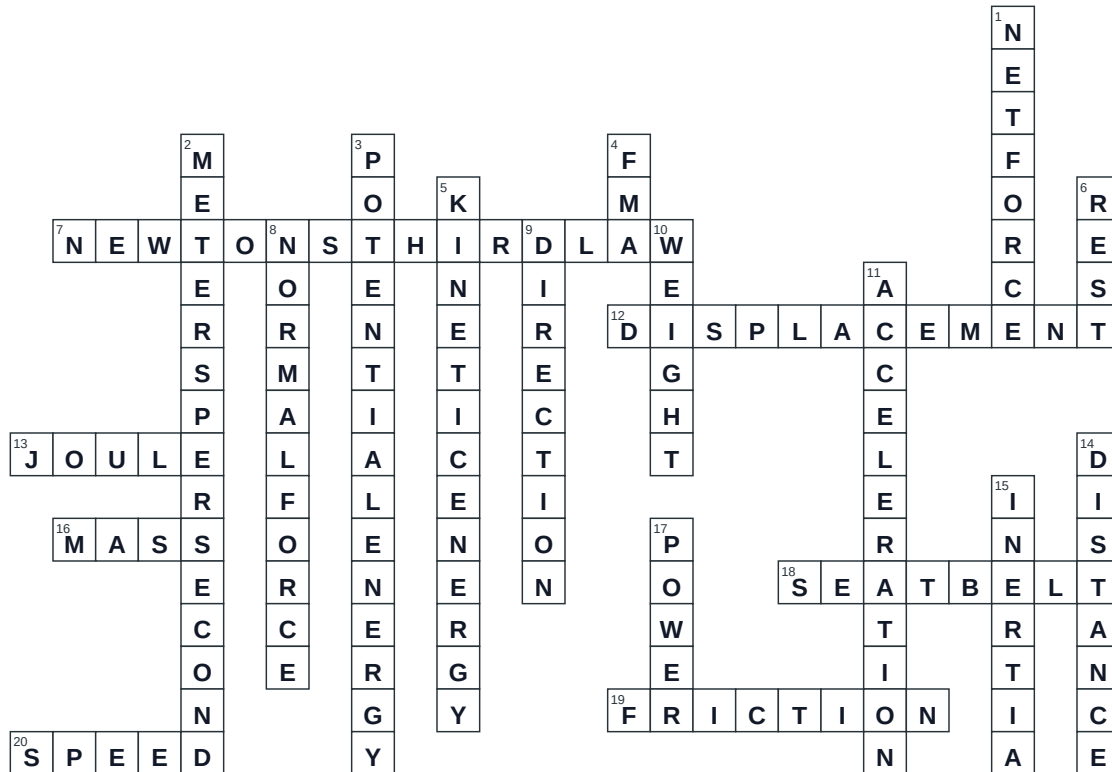
- 4. Relationship that expresses Newton's second law for constant mass
- 5. Energy of motion; for a fixed mass it varies with the square of speed.
- 6. State in which position does not change relative to a chosen reference point
- 8. Force that is a surface's push perpendicular to that surface
- 9. Orientation of motion, needed to describe a velocity vector
- 10. The gravitational force acting on an object
- 11. Change in velocity per unit time
- 14. The total length of a traveled path
- 15. Resistance to changes in motion
- 17. The rate of energy transfer or work

Motion Speed and Acceleration Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

- 7. Newton's third law
- 12. Displacement
- 13. Joule
- 16. Mass
- 18. Seat Belt
- 19. Friction
- 20. Speed

DOWN

- 1. Net Force
- 2. Meters Per Second

DOWN (continued)

- 3. Potential Energy
- 4. $F = ma$
- 5. Kinetic energy
- 6. Rest
- 8. Normal Force
- 9. Direction
- 10. Weight
- 11. Acceleration
- 14. Distance
- 15. Inertia
- 17. Power