

Easy | 10 clues | Student Worksheet

Date: _____

A crossword puzzle grid with 10 numbered starting points for words. The grid is composed of white squares for letters and black squares for empty space. Numbers 1 through 10 are placed in the top-left corner of the starting squares.

DOWN

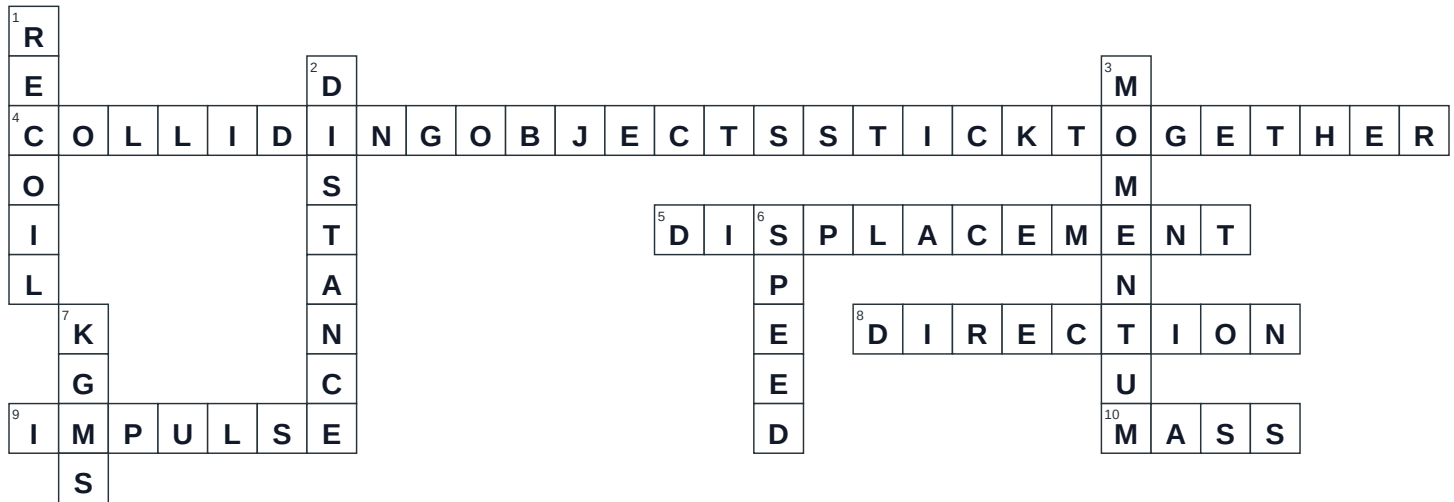
1. Backward motion associated with another object's forward momentum
2. The total length of a traveled path
3. Mass multiplied by velocity
6. Quantity that is a scalar
7. Unit that can express momentum

Momentum and Collisions 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. Colliding Objects Stick Together
5. Displacement
8. Direction
9. Impulse
10. Mass

DOWN

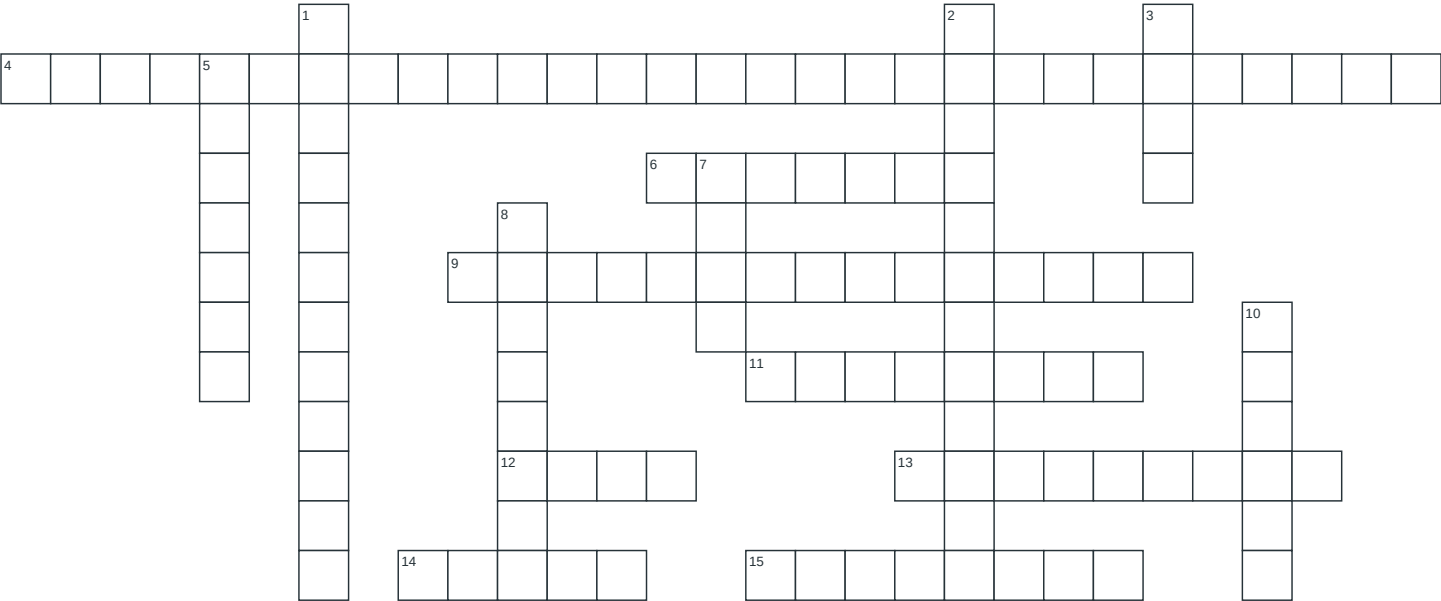
1. Recoil
2. Distance
3. Momentum
6. Speed
7. Kg·m/s

Momentum and Collisions Crossword

Medium | 15 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 4. Characterizes a perfectly inelastic collision
- 6. The change in momentum caused by a force over time
- 9. SI-derived unit commonly used to measure speed or velocity.
- 11. The total length of a traveled path
- 12. State in which position does not change relative to a chosen reference point.
- 13. Orientation of motion, needed to describe a velocity vector.
- 14. Quantity that is a scalar

ACROSS (continued)

- 15. Mass multiplied by velocity

DOWN

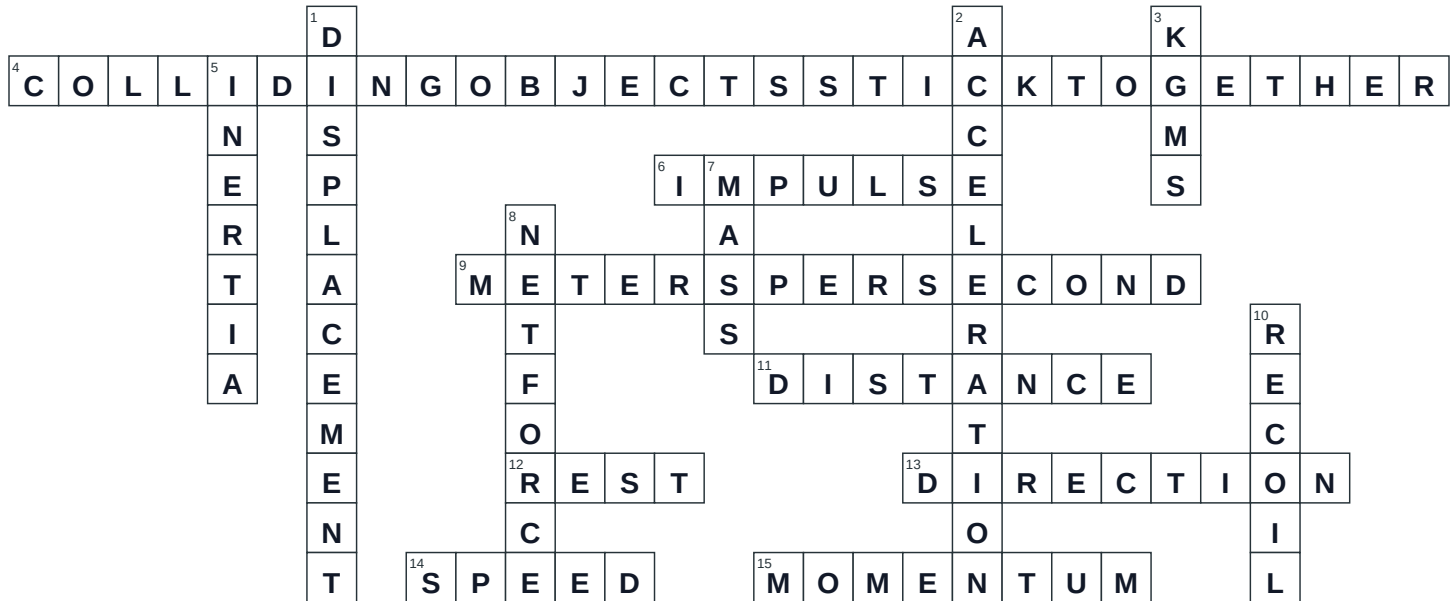
- 1. The directed change from initial to final position
- 2. Change in velocity per unit time.
- 3. Unit that can express momentum
- 5. Resistance to changes in motion
- 7. Measure of the amount of matter in an object.
- 8. The vector sum of all forces acting on an object
- 10. Backward motion associated with another object's forward momentum

Momentum and Collisions Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

4. Colliding Objects Stick Together
6. Impulse
9. Meters per second
11. Distance
12. Rest
13. Direction
14. Speed
15. Momentum

DOWN

1. Displacement
2. Acceleration
3. Kg·m/s
5. Inertia
7. Mass
8. Net Force
10. Recoil

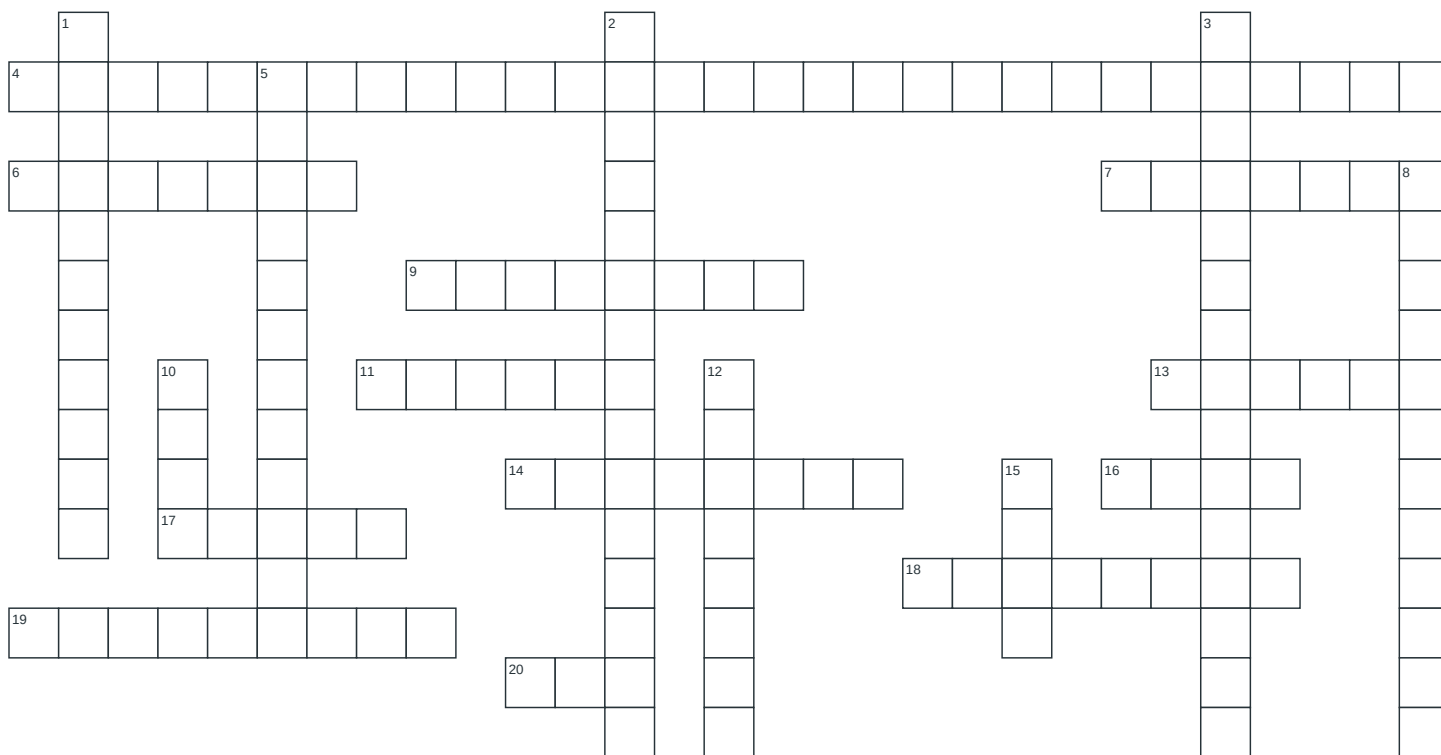
Momentum and Collisions Crossword

Hard | 20 clues | Student Worksheet

Name: _____

Date: _____

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

**ACROSS**

4. Characterizes a perfectly inelastic collision
6. The change in momentum caused by a force over time
7. Resistance to changes in motion
9. Mass multiplied by velocity
11. The gravitational force acting on an object
13. Backward motion associated with another object's forward momentum
14. Force that opposes relative motion between surfaces in contact.
16. Measure of the amount of matter in an object.
17. Quantity that is a scalar
18. The total length of a traveled path
19. Orientation of motion, needed to describe a velocity vector.

ACROSS (continued)

20. Relationship that expresses Newton's second law for constant mass

DOWN

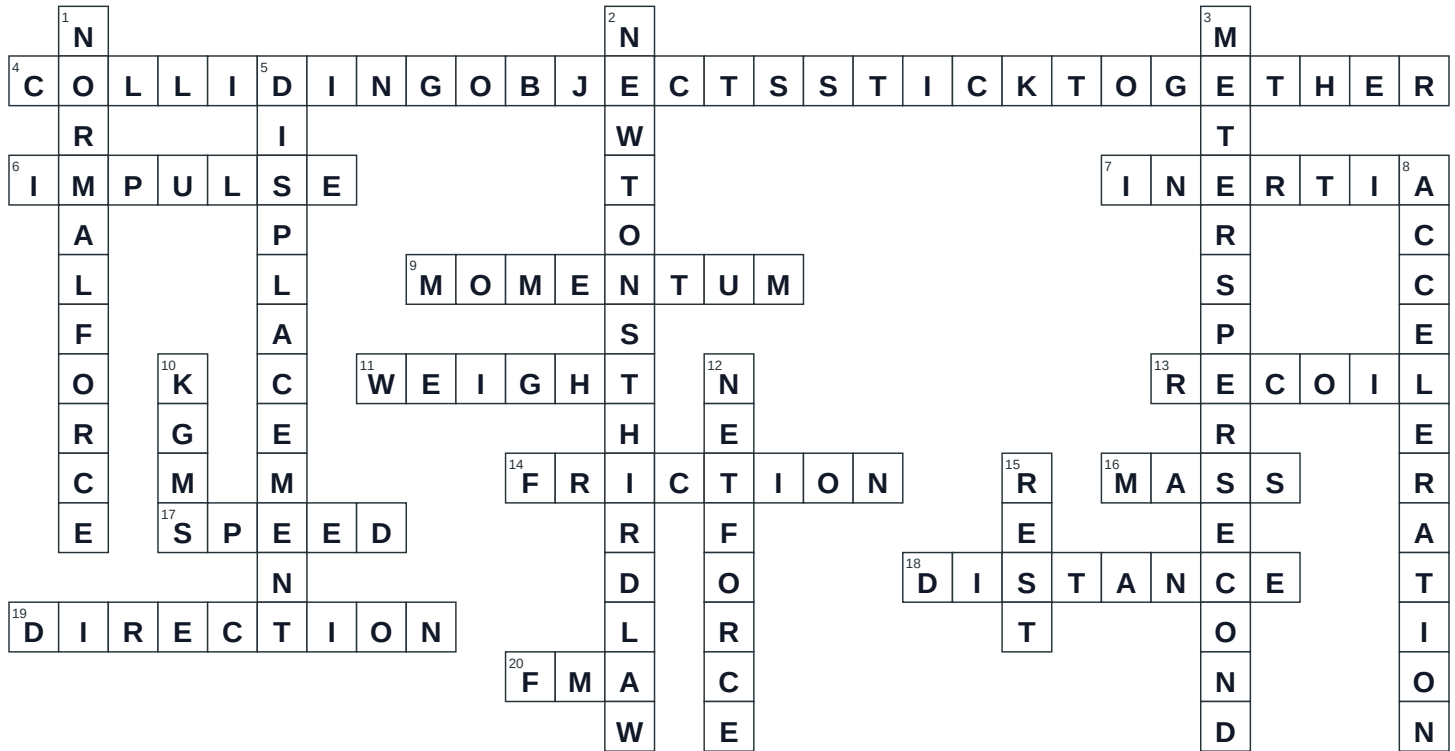
1. Force that is a surface's push perpendicular to that surface
2. Forces between interacting objects are equal in magnitude and opposite in direction.
3. SI-derived unit commonly used to measure speed or velocity.
5. The directed change from initial to final position
8. Change in velocity per unit time.
10. Unit that can express momentum
12. The vector sum of all forces acting on an object
15. State in which position does not change relative to a chosen reference point.

Momentum and Collisions Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

4. Colliding Objects Stick Together
6. Impulse
7. Inertia
9. Momentum
11. Weight
13. Recoil
14. Friction
16. Mass
17. Speed
18. Distance
19. Direction

ACROSS (continued)

20. $F = ma$

DOWN

1. Normal Force
2. Newton's third law
3. Meters per second
5. Displacement
8. Acceleration
10. $\text{Kg} \cdot \text{m/s}$
12. Net Force
15. Rest