

Rotational Motion Crossword

Easy | 10 clues | Student Worksheet

Name: _____

Date: _____

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

[illegible]

ACROSS

1. Change in angular position
5. SI unit is commonly used for torque
6. Turning effect of a force about an axis
7. Rate of change of angular velocity
8. Rate of change of angular position
9. A quantity describing rotational motion that can be conserved

ACROSS (continued)

- 10.** Change in velocity per unit time.

DOWN

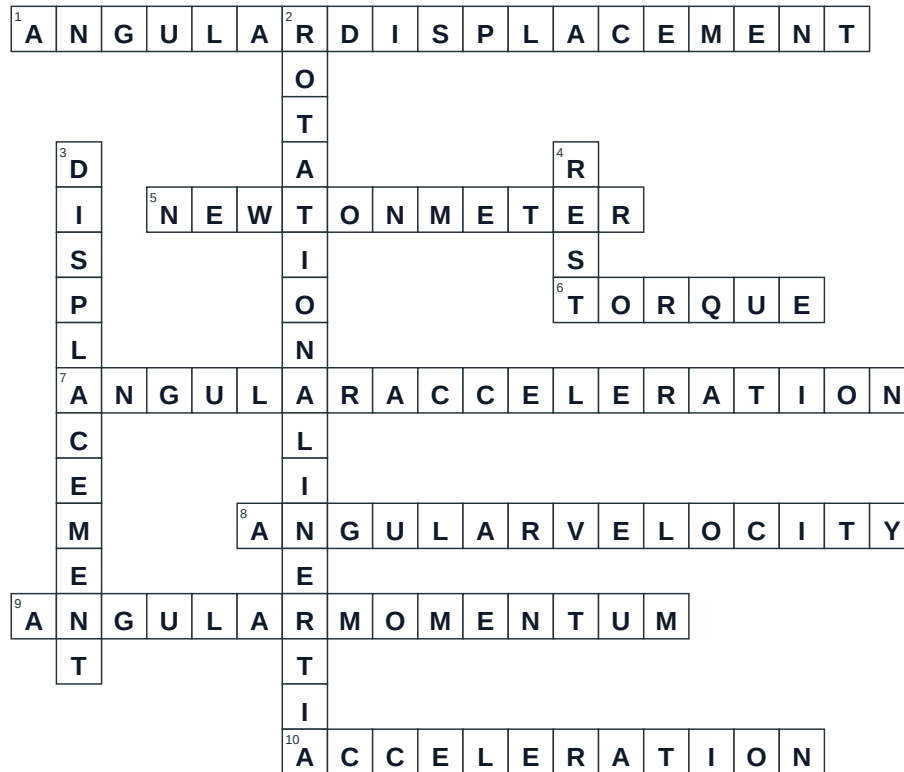
2. Measure of resistance to changes in rotational motion
3. The directed change from initial to final position
4. State in which position does not change relative to a chosen reference point.

Rotational Motion Crossword

Easy | 10 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

1. Angular Displacement
5. Newton-meter
6. Torque
7. Angular Acceleration
8. Angular Velocity
9. Angular Momentum

ACROSS (continued)

10. Acceleration

DOWN

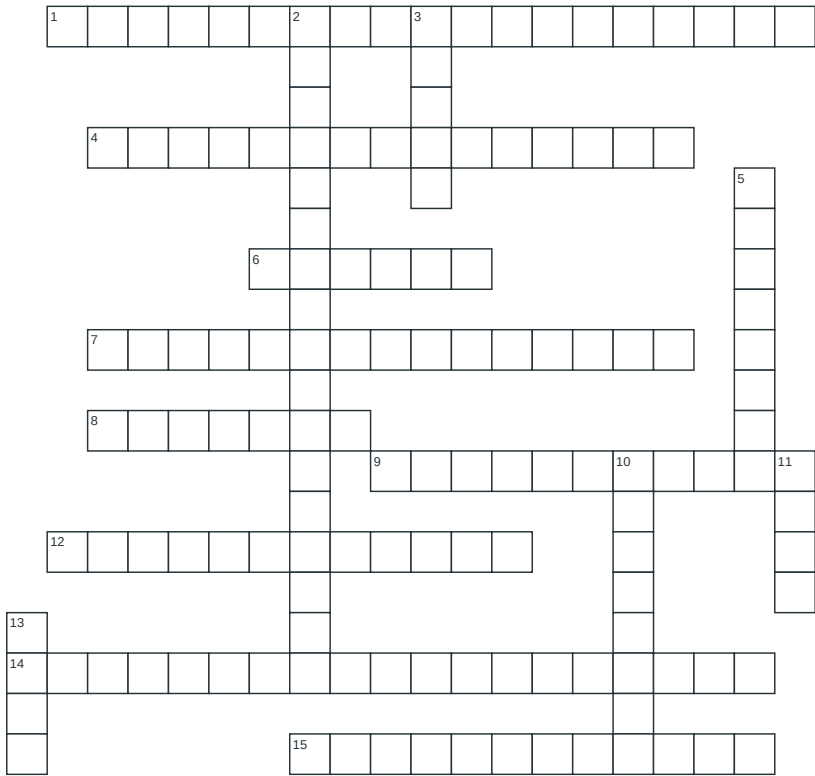
2. Rotational Inertia
3. Displacement
4. Rest

Rotational Motion Crossword

Medium | 15 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 1. Change in angular position
- 4. Rate of change of angular position
- 6. Turning effect of a force about an axis
- 7. A quantity describing rotational motion that can be conserved
- 8. Resistance to changes in motion
- 9. SI unit is commonly used for torque
- 12. Change in velocity per unit time.
- 14. Rate of change of angular velocity

ACROSS (continued)

- 15. The directed change from initial to final position

DOWN

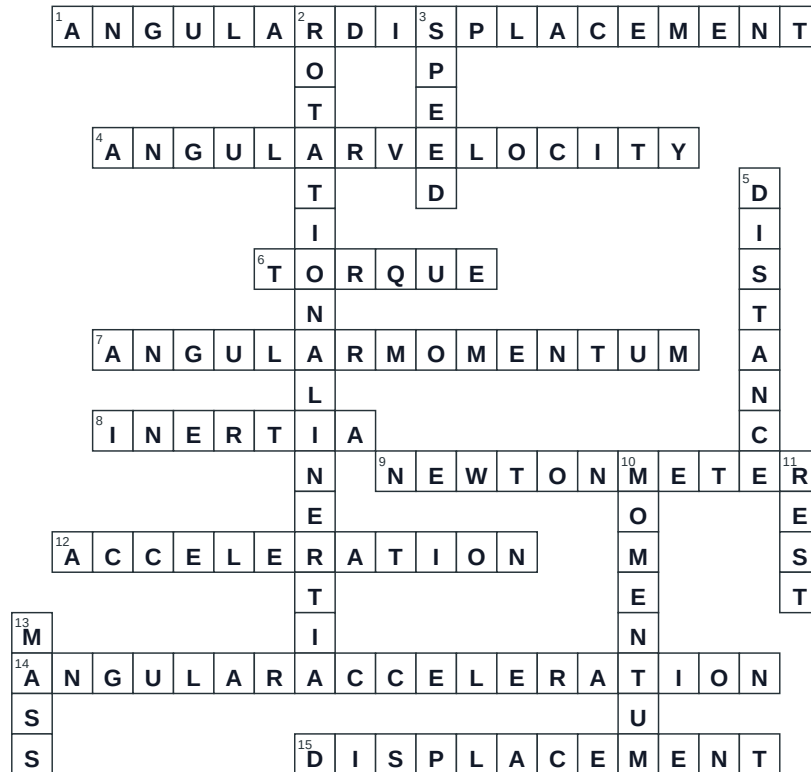
- 2. Measure of resistance to changes in rotational motion
- 3. Quantity that is a scalar
- 5. The total length of a traveled path
- 10. Mass multiplied by velocity
- 11. State in which position does not change relative to a chosen reference point.
- 13. Measure of the amount of matter in an object.

Rotational Motion 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. Angular Displacement
4. Angular Velocity
6. Torque
7. Angular Momentum
8. Inertia
9. Newton-meter
12. Acceleration
14. Angular Acceleration

ACROSS (continued)

15. Displacement

DOWN

2. Rotational Inertia
3. Speed
5. Distance
10. Momentum
11. Rest
13. Mass

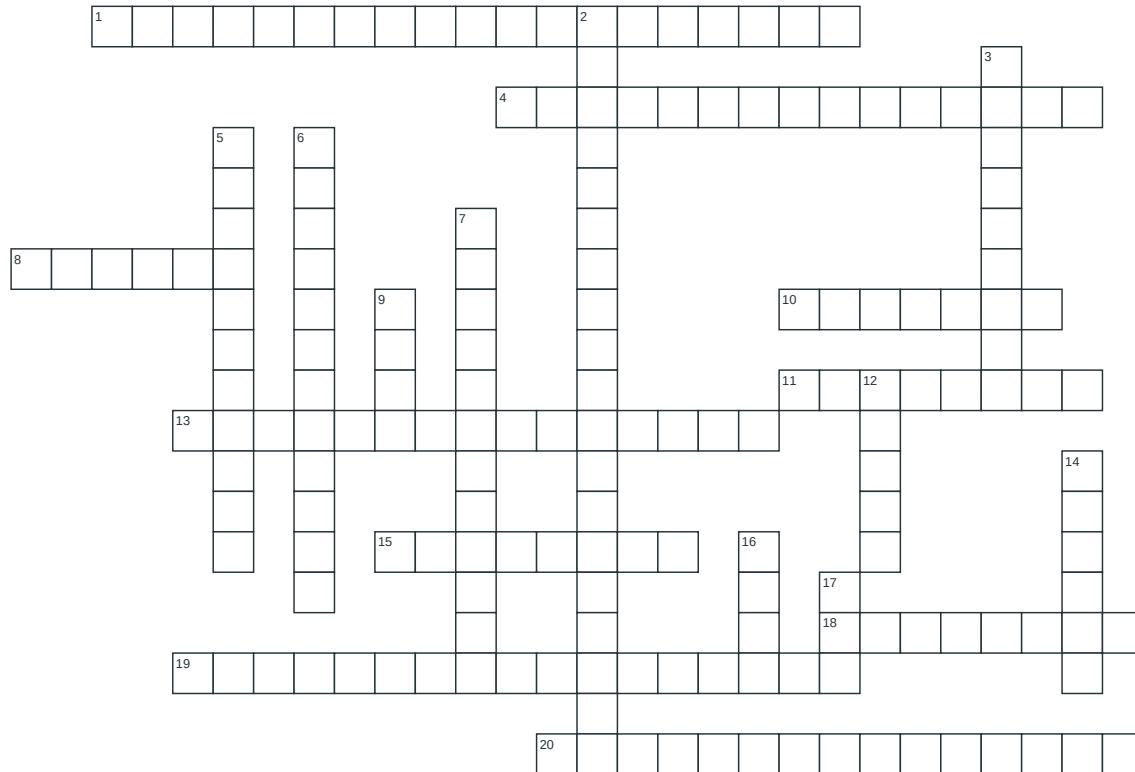
Rotational Motion Crossword

Hard | 20 clues | Student Worksheet

Name: _____

Date: _____

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



ACROSS

1. Change in angular position
4. Rate of change of angular position
8. The gravitational force acting on an object
10. Resistance to changes in motion
11. The total length of a traveled path
13. SI-derived unit commonly used to measure speed or velocity.
15. The vector sum of all forces acting on an object
18. Mass multiplied by velocity
19. Measure of resistance to changes in rotational motion
20. A quantity describing rotational motion that can be conserved

DOWN

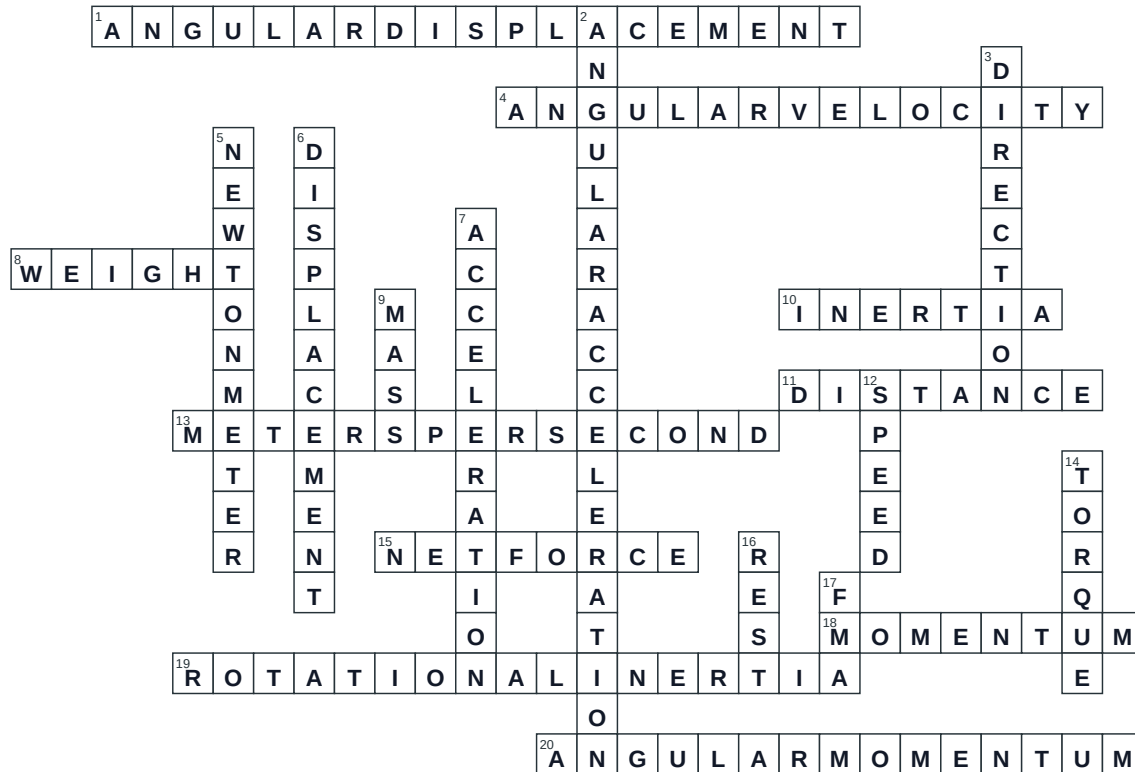
2. Rate of change of angular velocity
3. Orientation of motion, needed to describe a velocity vector.
5. SI unit is commonly used for torque
6. The directed change from initial to final position
7. Change in velocity per unit time.
9. Measure of the amount of matter in an object.
12. Quantity that is a scalar
14. Turning effect of a force about an axis
16. State in which position does not change relative to a chosen reference point.
17. Relationship that expresses Newton's second law for constant mass

Rotational Motion Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

1. Angular Displacement
4. Angular Velocity
8. Weight
10. Inertia
11. Distance
13. Meters per second
15. Net Force
18. Momentum
19. Rotational Inertia
20. Angular Momentum

DOWN

2. Angular Acceleration
3. Direction
5. Newton-meter
6. Displacement
7. Acceleration
9. Mass
12. Speed
14. Torque
16. Rest
17. $F = ma$