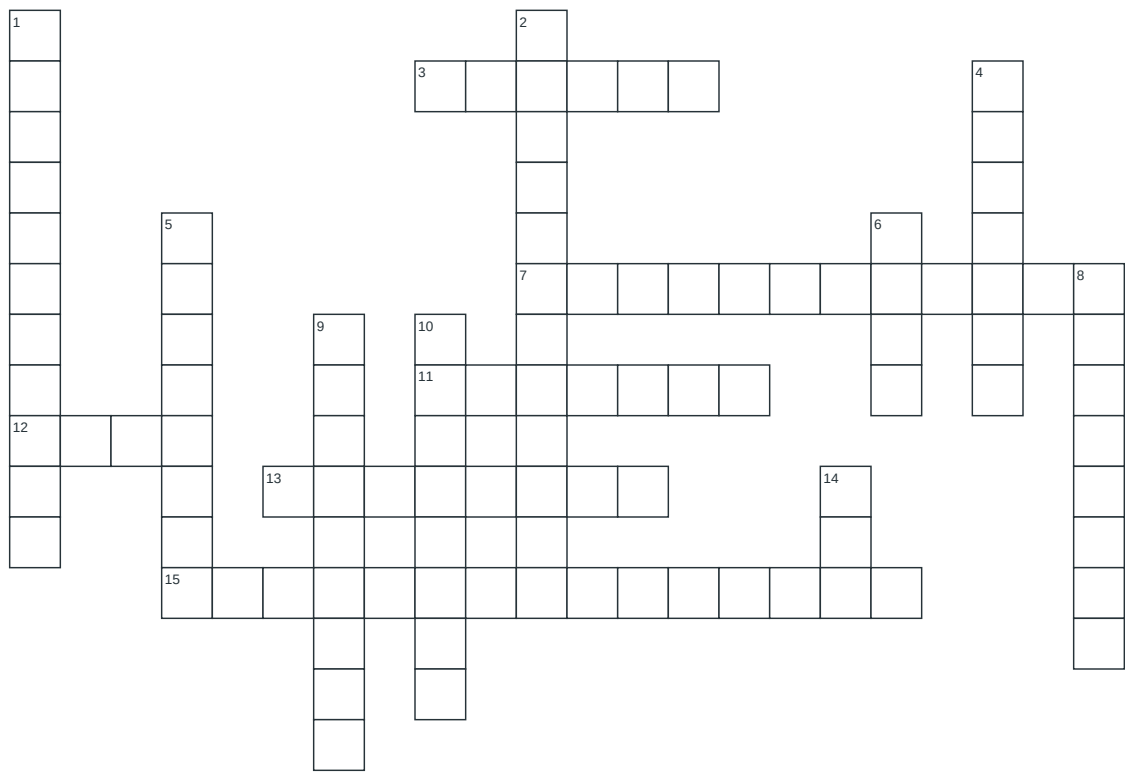


Forces and Newton's Laws Crossword

Medium | 15 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 3. The gravitational force acting on an object
- 7. Change in velocity per unit time.
- 11. Resistance to changes in motion
- 12. State in which position does not change relative to a chosen reference point.
- 13. Exerts a force that changes the passenger's motion
- 15. Equal and opposite interaction forces acting on different objects

DOWN

- 1. Force that is a surface's push perpendicular to that surface

DOWN (continued)

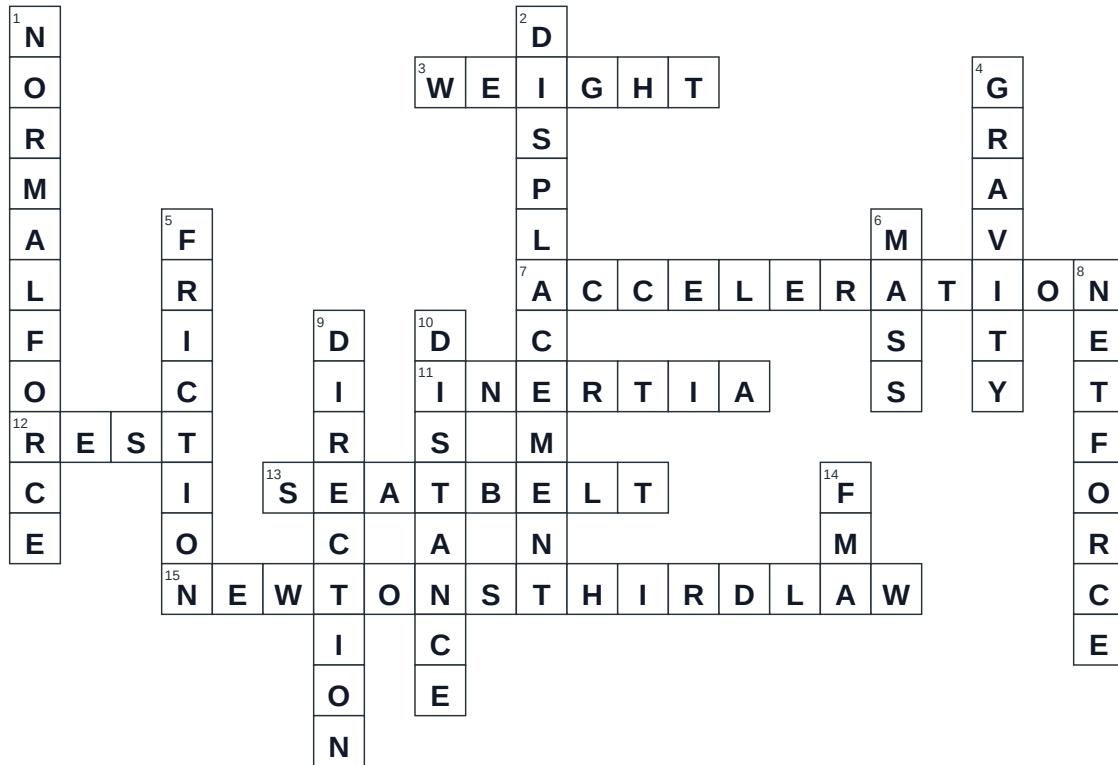
- 2. The directed change from initial to final position
- 4. In the ideal near-Earth projectile model, which force acts after launch when air resistance is neglected
- 5. Opposes the relative sliding of contacting surfaces
- 6. Measure of the amount of matter in an object
- 8. The vector sum of all forces acting on an object
- 9. Orientation of motion, needed to describe a velocity vector.
- 10. The total length of a traveled path
- 14. Relationship that expresses Newton's second law for constant mass

Forces and Newton's Laws Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

- 3. Weight
- 7. Acceleration
- 11. Inertia
- 12. Rest
- 13. Seat Belt
- 15. Newton's Third Law

DOWN

- 1. Normal Force

DOWN (continued)

- 2. Displacement
- 4. Gravity
- 5. Friction
- 6. Mass
- 8. Net Force
- 9. Direction
- 10. Distance
- 14. $F = ma$