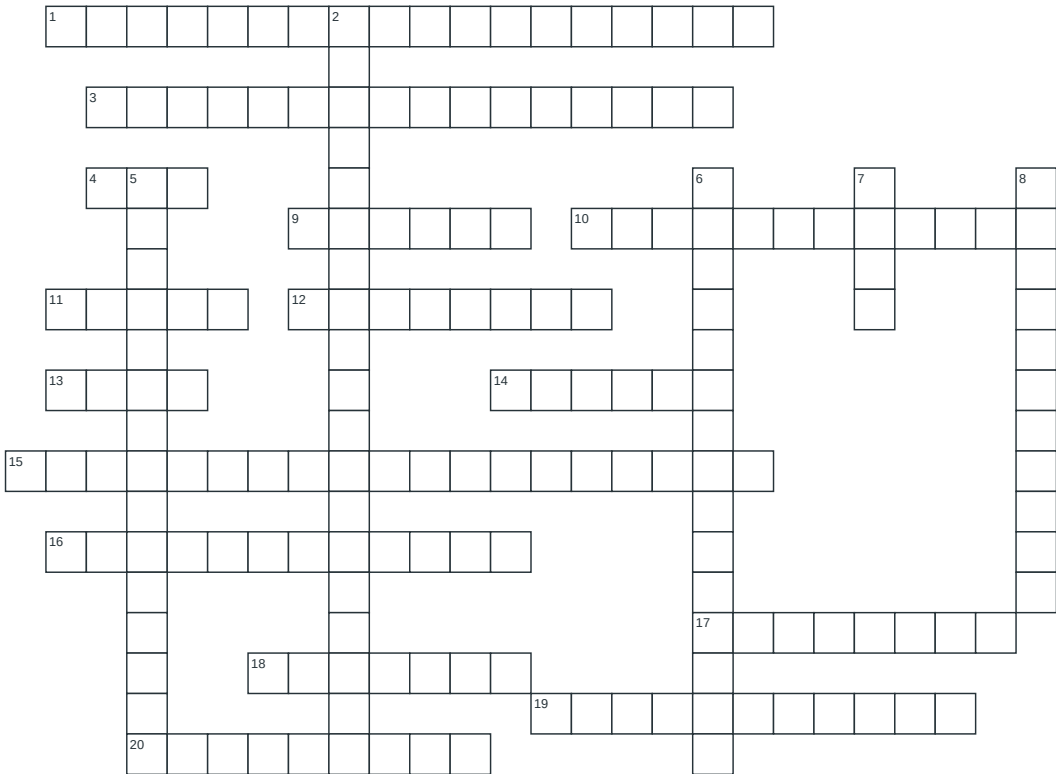


Modern Physics Fundamentals Crossword

Hard | 20 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 1. Predicts likelihoods of measurement outcomes
- 3. Specific wavelengths of light emitted by excited atoms
- 4. Relationship that expresses Newton's second law for constant mass
- 9. The gravitational force acting on an object
- 10. Change in velocity per unit time.
- 11. Quantity that is a scalar
- 12. The vector sum of all forces acting on an object
- 13. State in which position does not change relative to a chosen reference point.
- 14. Quantum, or discrete packet, of electromagnetic energy
- 15. Quantum objects can display both wave-like and particle-like behavior
- 16. The directed change from initial to final position

ACROSS (continued)

- 17. The total length of a traveled path
- 18. Resistance to changes in motion
- 19. Force that is a surface's push perpendicular to that surface
- 20. Orientation of motion, needed to describe a velocity vector.

DOWN

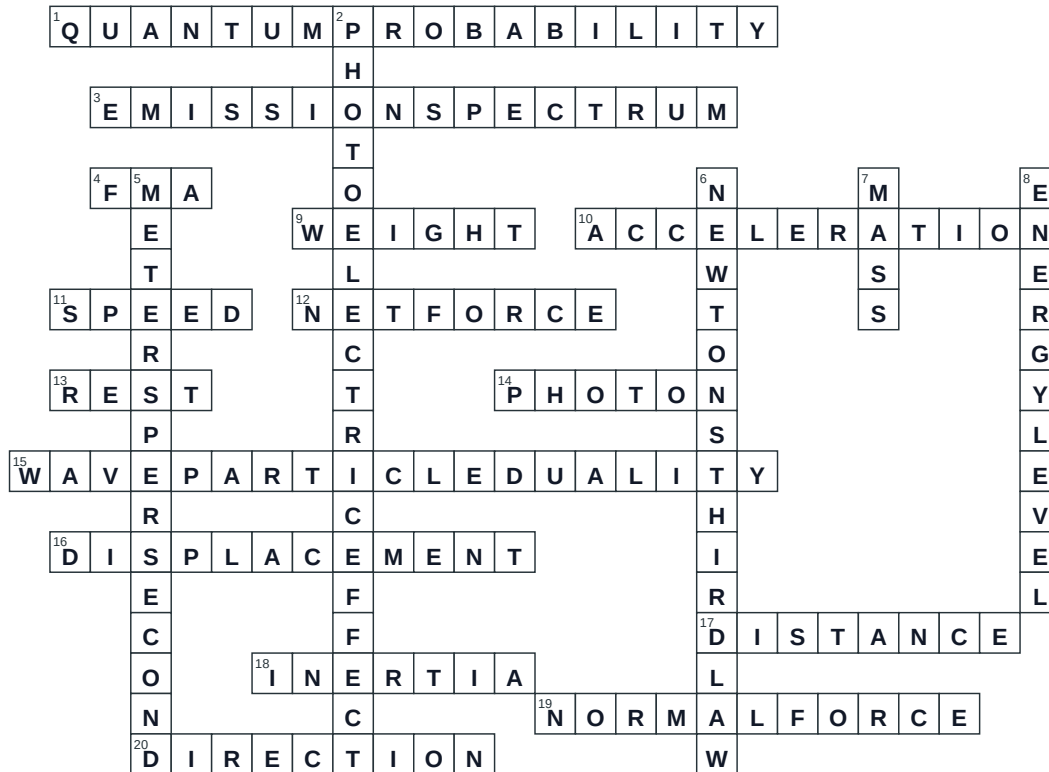
- 2. Emission of electrons from a material after light transfers sufficient energy
- 5. SI-derived unit commonly used to measure speed or velocity.
- 6. Forces between interacting objects are equal in magnitude and opposite in direction.
- 7. Measure of the amount of matter in an object.
- 8. An electron can occupy certain allowed energies

Modern Physics Fundamentals 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. Quantum Probability
3. Emission Spectrum
4. $F = ma$
9. Weight
10. Acceleration
11. Speed
12. Net Force
13. Rest
14. Photon
15. Wave-particle Duality
16. Displacement

ACROSS (continued)

17. Distance
18. Inertia
19. Normal Force
20. Direction

DOWN

2. Photoelectric Effect
5. Meters per second
6. Newton's third law
7. Mass
8. Energy Level