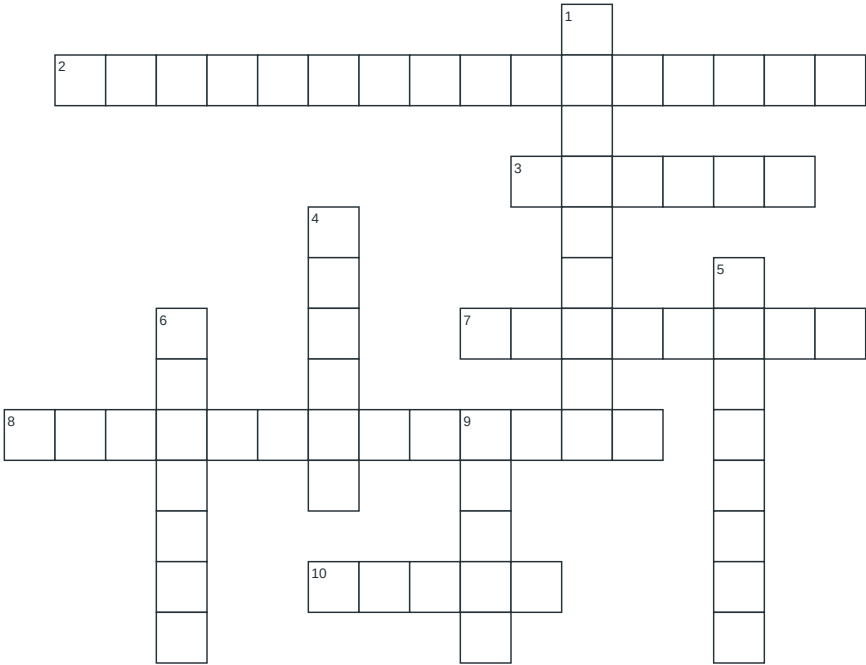


Simple Machines Crossword

Easy | 10 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 2. Generally increases the fraction of input work delivered usefully
- 3. The gravitational force acting on an object
- 7. Force that opposes relative motion between surfaces in contact.
- 8. Simple machine is a sloped surface used to raise a load
- 10. Simple machine is an inclined plane wrapped around a cylinder

DOWN

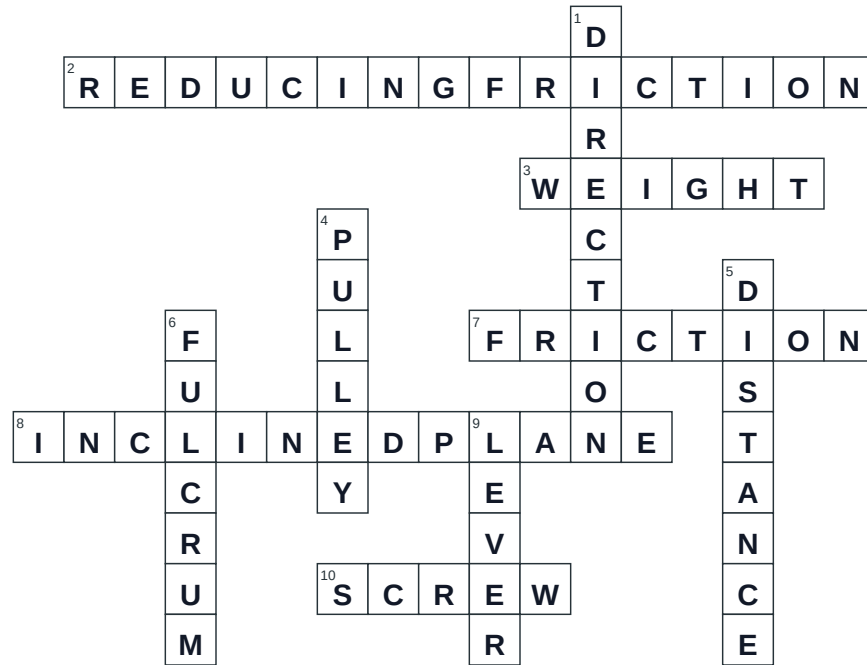
- 1. Orientation of motion, needed to describe a velocity vector.
- 4. Simple machine consists of a grooved wheel guiding a rope
- 5. The total length of a traveled path
- 6. Definition of the pivot point of a lever called
- 9. Simple machine uses a rigid bar that turns around a pivot

Simple Machines Crossword

Easy | 10 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

2. Reducing Friction
3. Weight
7. Friction
8. Inclined Plane
10. Screw

DOWN

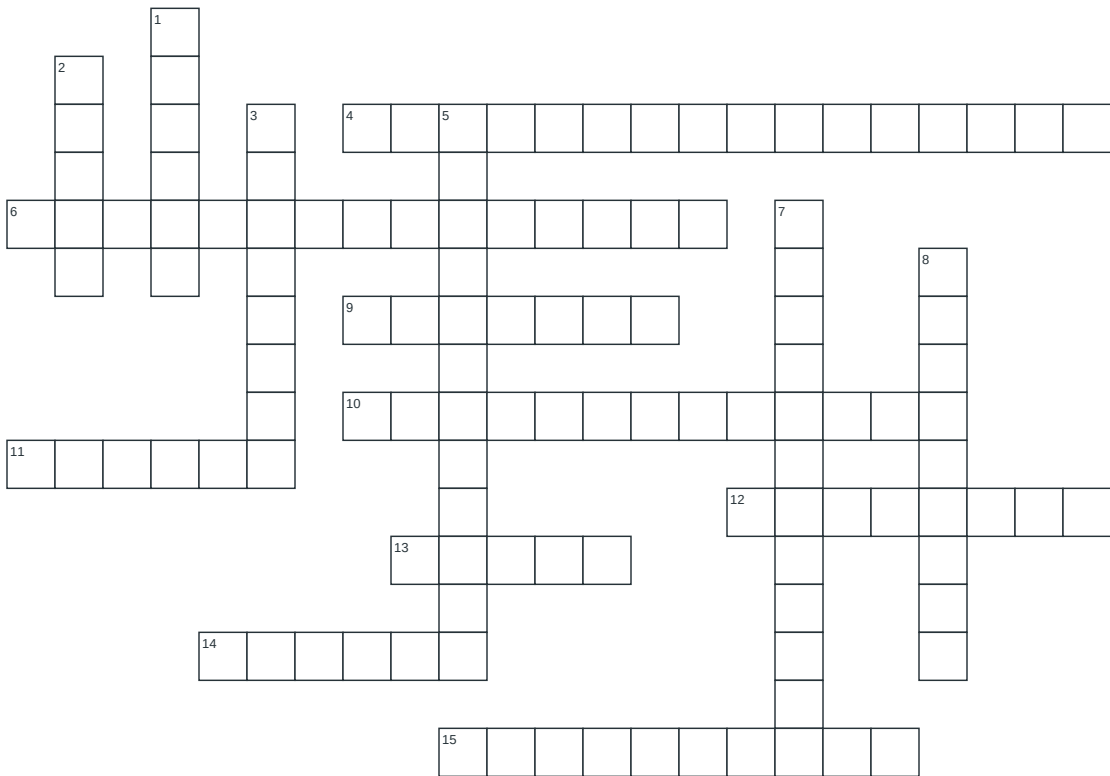
1. Direction
4. Pulley
5. Distance
6. Fulcrum
9. Lever

Simple Machines Crossword

Medium | 15 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 4. Generally increases the fraction of input work delivered usefully
- 6. SI-derived unit commonly used to measure speed or velocity.
- 9. Definition of the pivot point of a lever called
- 10. Simple machine is a sloped surface used to raise a load
- 11. Turning effect of a force about an axis.
- 12. Force that opposes relative motion between surfaces in contact.
- 13. Simple machine uses a rigid bar that turns around a pivot

ACROSS (continued)

- 14. The gravitational force acting on an object
- 15. Useful output energy with total input energy

DOWN

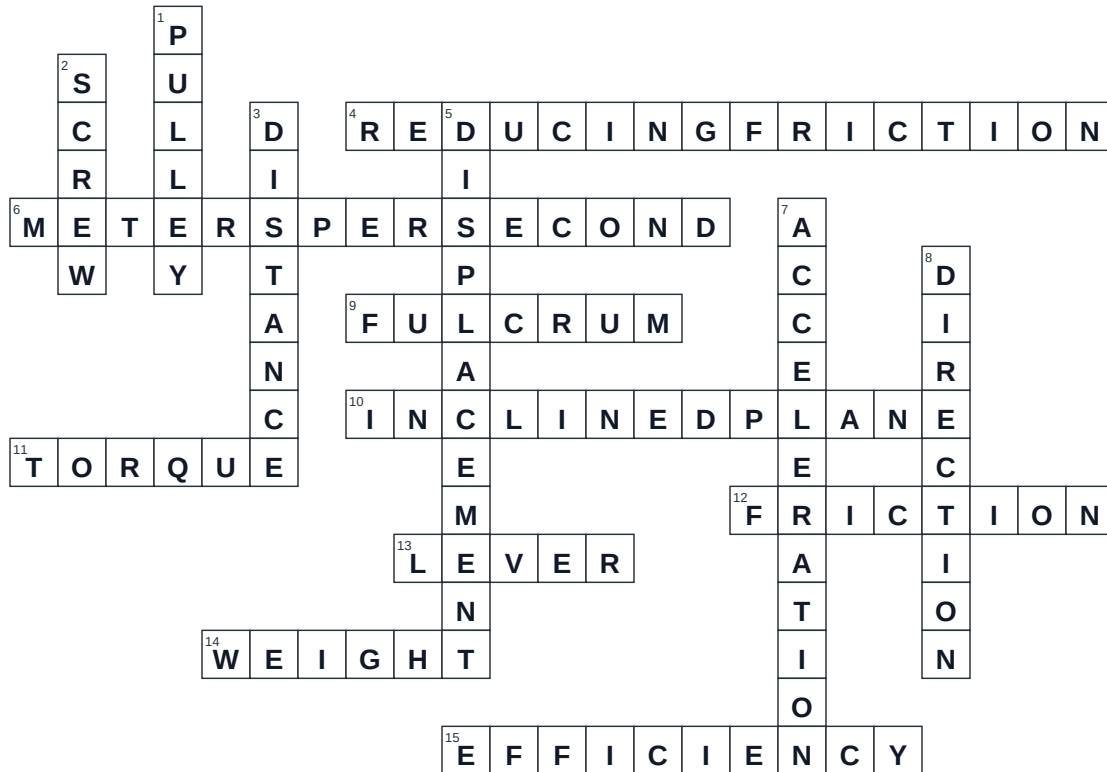
- 1. Simple machine consists of a grooved wheel guiding a rope
- 2. Simple machine is an inclined plane wrapped around a cylinder
- 3. The total length of a traveled path
- 5. The directed change from initial to final position
- 7. Change in velocity per unit time.
- 8. Orientation of motion, needed to describe a velocity vector.

Simple Machines 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. Reducing Friction
6. Meters per second
9. Fulcrum
10. Inclined Plane
11. Torque
12. Friction
13. Lever
14. Weight

ACROSS (continued)

15. Efficiency

DOWN

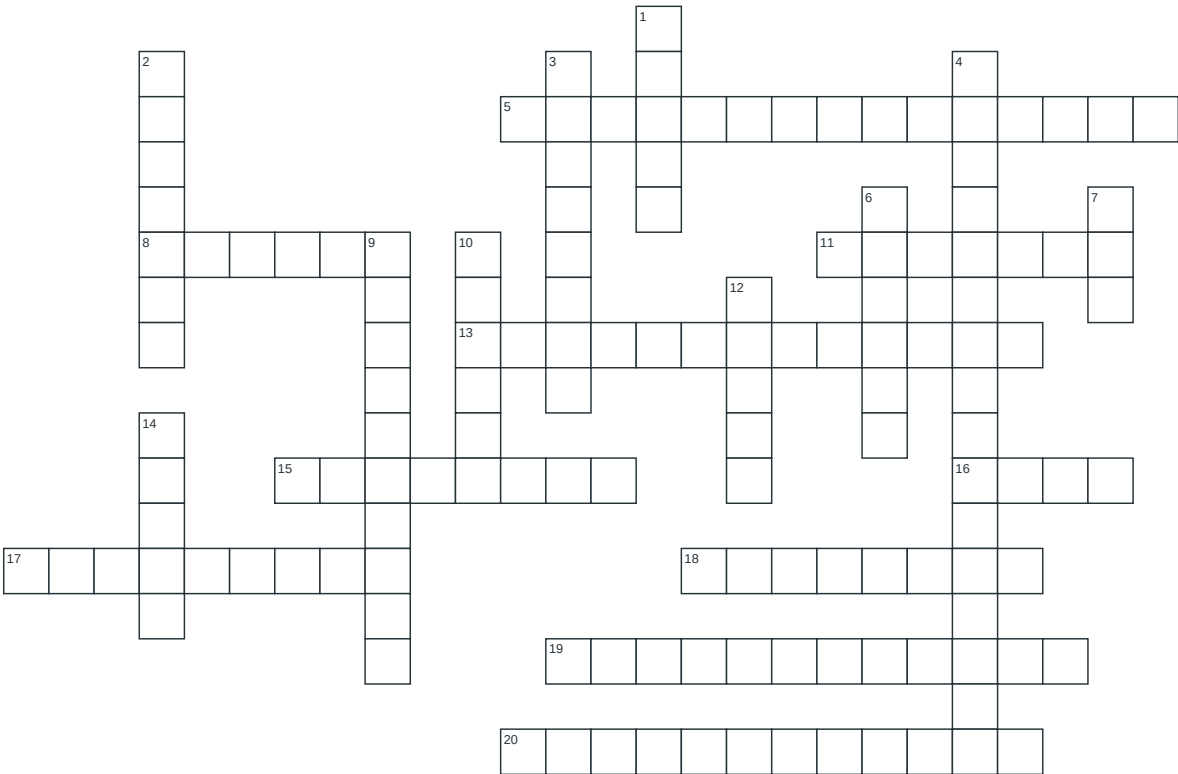
1. Pulley
2. Screw
3. Distance
5. Displacement
7. Acceleration
8. Direction

Simple Machines Crossword

Hard | 20 clues | Student Worksheet

Name: _____ Date: _____

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



ACROSS

- 5. SI-derived unit commonly used to measure speed or velocity.
- 8. Turning effect of a force about an axis.
- 11. Definition of the pivot point of a lever called
- 13. Simple machine is a sloped surface used to raise a load
- 15. Force that opposes relative motion between surfaces in contact.
- 16. State in which position does not change relative to a chosen reference point.
- 17. Orientation of motion, needed to describe a velocity vector.
- 18. The total length of a traveled path
- 19. Change in velocity per unit time.
- 20. The directed change from initial to final position

DOWN

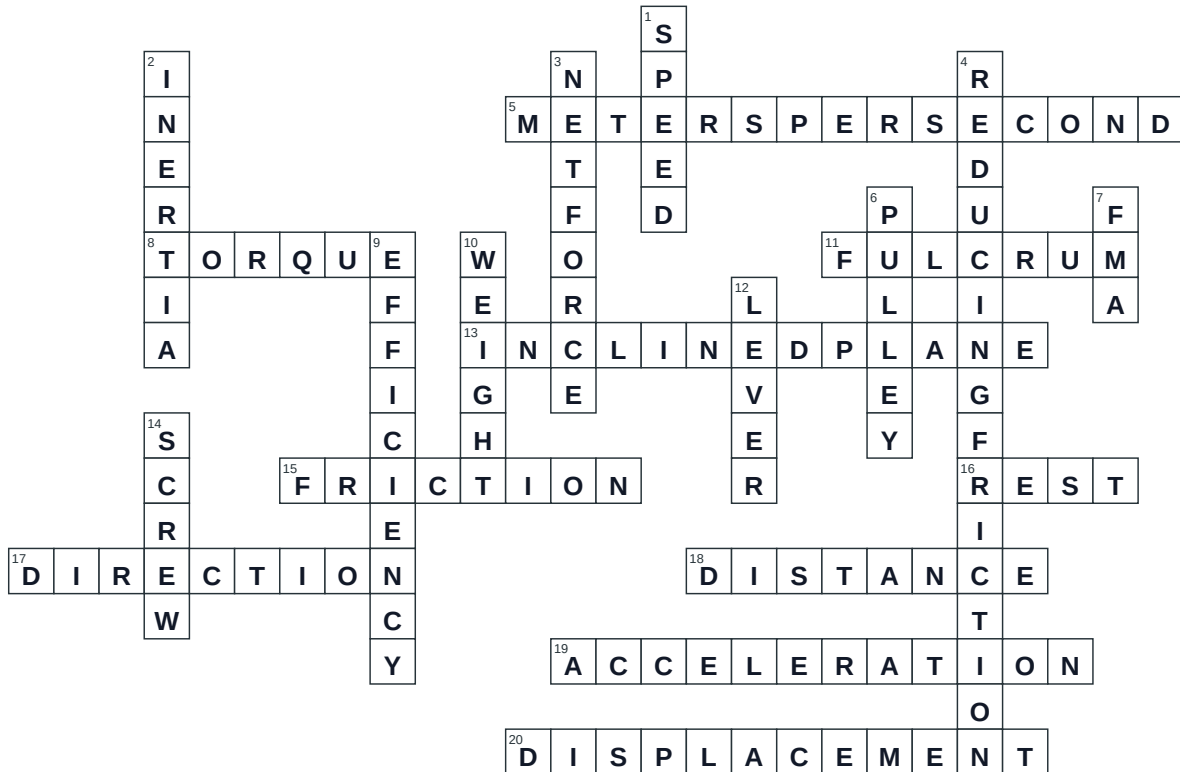
- 1. Quantity that is a scalar
- 2. Resistance to changes in motion
- 3. The vector sum of all forces acting on an object
- 4. Generally increases the fraction of input work delivered usefully
- 6. Simple machine consists of a grooved wheel guiding a rope
- 7. Relationship that expresses Newton's second law for constant mass
- 9. Useful output energy with total input energy
- 10. The gravitational force acting on an object
- 12. Simple machine uses a rigid bar that turns around a pivot
- 14. Simple machine is an inclined plane wrapped around a cylinder

Simple Machines Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

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



ACROSS

5. Meters per second
8. Torque
11. Fulcrum
13. Inclined Plane
15. Friction
16. Rest
17. Direction
18. Distance
19. Acceleration
20. Displacement

DOWN

1. Speed
2. Inertia
3. Net Force
4. Reducing Friction
6. Pulley
7. $F = ma$
9. Efficiency
10. Weight
12. Lever
14. Screw