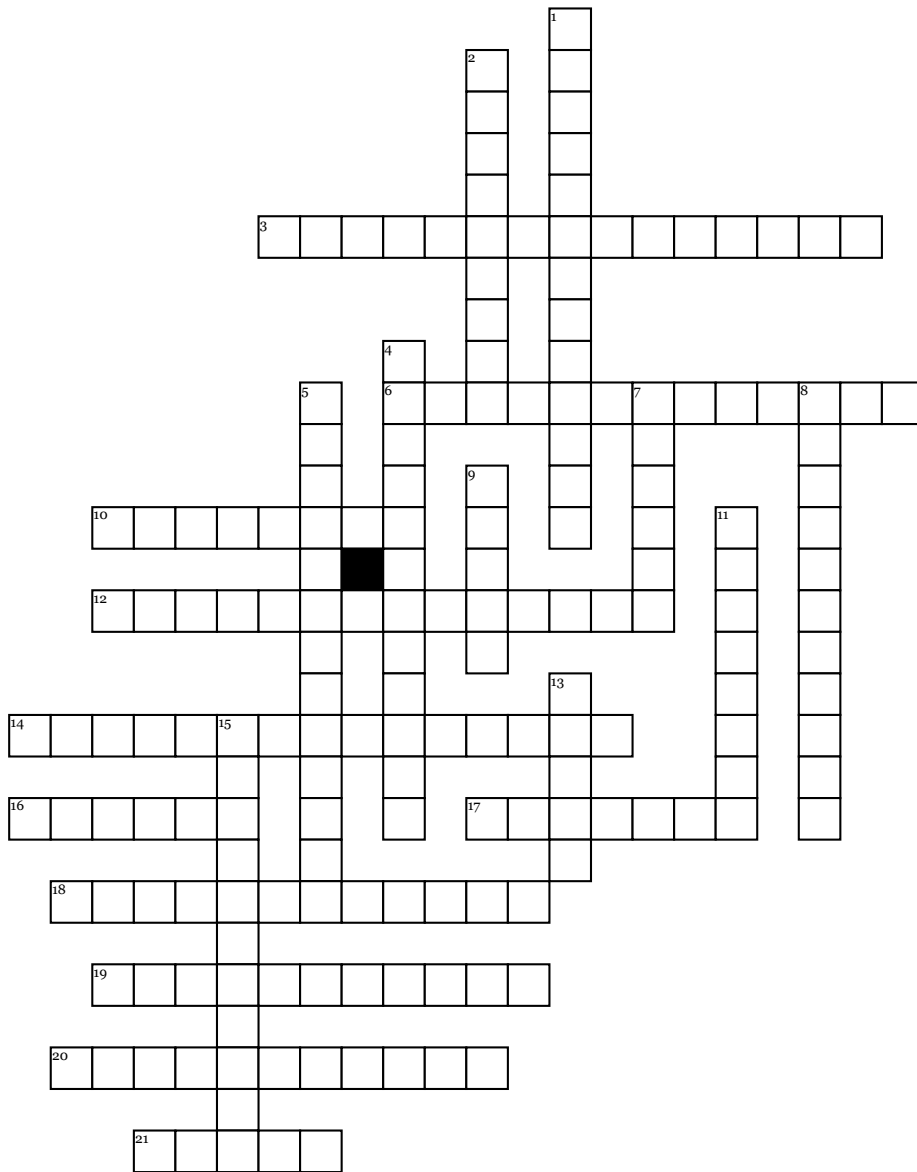


Name: _____

Force and Motion



Across

- 3. the friction force that resists the motion of an object moving across a surface.
- 6. speed that stays the same and does not change
- 10. accelerated motion that happens when an object falls with only the force of gravity acting on it.
- 12. the friction force that resists the motion between two surfaces that are not moving.
- 14. occurs when an object rolls over another
- 16. a variable that gives direction information included in its value

- 17. A pulling force that acts in a rope, string, or other object
- 18. the total distance divided by the total time for a trip.
- 19. the sum of all forces acting on an object
- 20. A squeeze or decrease in size
- 21. describes how quickly an object moves, calculated by dividing the distance traveled by the time it takes

Down

- 1. occurs when an objects moves through a fluid
- 2. A stress or increase in size
- 4. the rate at which velocity changes

- 5. combined forces that result in a zero net force on an object.
- 7. - the metric unit of force, equal to the force needed to make a 1 kg object accelerate at 1 m/s
- 8. the state in which the net force on an object is zero
- 9. a push or pull, or any action that involves the interaction of objects and has the ability to change motion.
- 11. A force that resists motion
- 13. - the English unit of force equal to 4.448 newtons.
- 15. the perpendicular force that a surface exerts on an object that is pressing on it