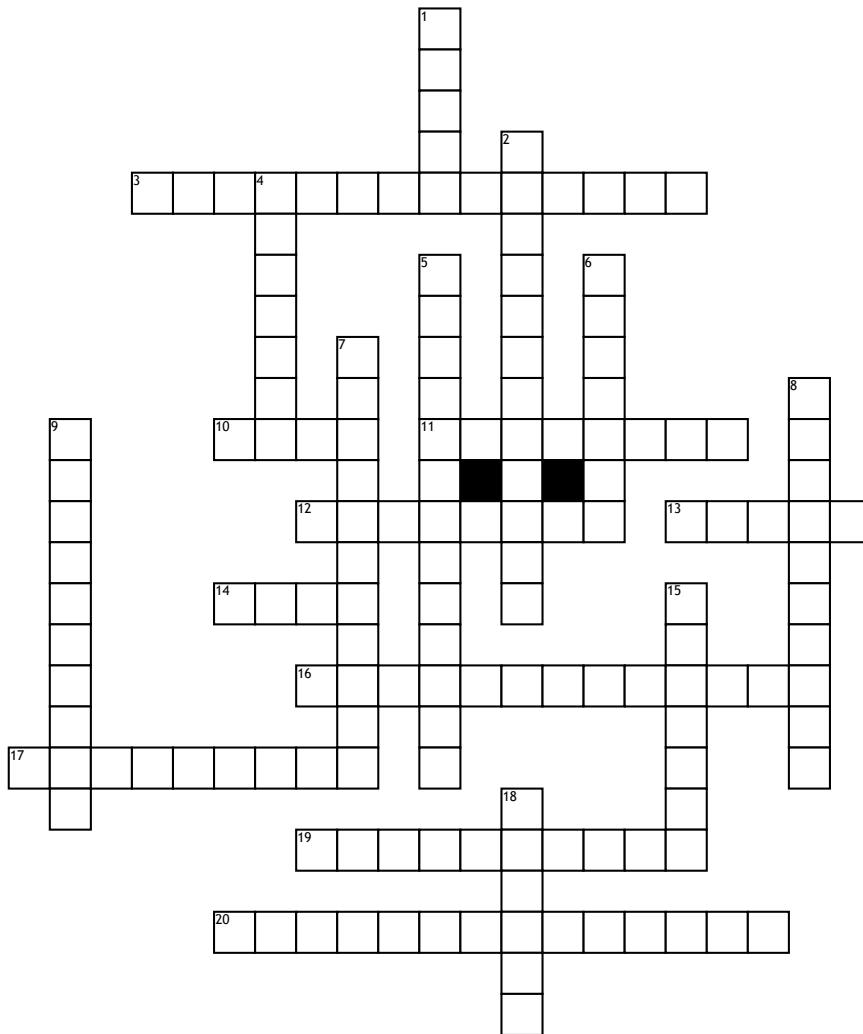


Name: _____ Date: _____ Period: _____

Force and Motion



Across

3. Newtons Third law of motion
10. The quantity of matter
11. A balance achieved between two desirable but incompatible features; a compromise
12. The resistance that one surface or object encounters when moving over another
13. The rate at which someone or something is able to move or operate
14. Newtons Second law of motion
16. The forces that are in opposition to the relative motion of an object as it passes through the air

17. An instance of one moving object or person striking violently against another
19. A form of energy that is transferred by a difference in temperature
20. The transfer of energy from one object or material to another

Down

1. Strength or energy as an attribute of physical action or movement
2. Increase in the rate or speed of something
4. Newtons First law of motion
5. Energy which a body possesses by virtue of being in motion
6. A regularity in the world, in human-made design, or in abstract ideas

7. The action or process of observing something or someone carefully or in order to gain information
8. A scientific procedure undertaken to make a discovery, test a hypothesis, or demonstrate a known fact
9. A thing predicted; a forecast
15. The force that attracts a body toward the center of the earth, or toward any other physical body having mass
18. The quantitative property that must be transferred to an object in order to perform work on, or to heat, the object

Word Bank

Speed	Prediction	Gravity	Heat Energy	Inertia
Collision	Trade-off	Observation	F=MA	Friction
Force	Action Reaction	Acceleration	Pattern	Air Resistance
Experiment	Kinetic Energy	Mass	Energy Transfer	Energy