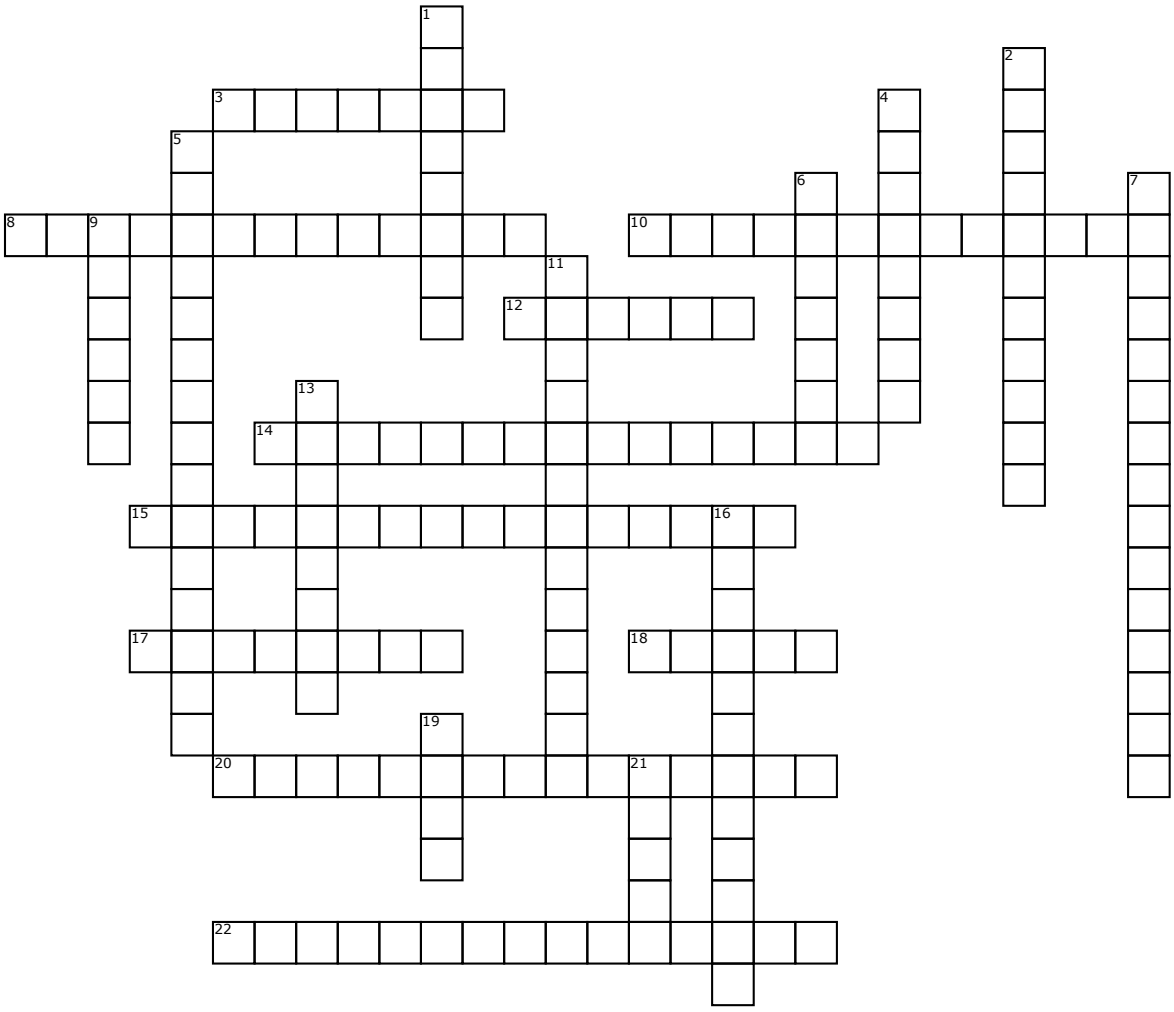
Name: _____ Date: _____

Newton laws



Across

3. The meausurement of the object is 9.8 m/s on earth

8. Energy that an object has due to its motion

10. Equal forces acting on an object in opposite directions

12. The force of gravity on an object at the surface of a planet

14. If one object exerts a force on another object, then the second object exerts a force of equal strength in the opposite direction on the first object.

15. Acceleration depends on the objects mass and on the netforce acting on the object.

17. The force that one surface exerts on another when the two surfaces rub against each other

18. The distance an object travels per unit of time

20. Forces that produce a nonzero net force, which changes an objects motion

22. Unit of measurement for speed

Down

1. The overall force on an object when all the individual forces acting on it are added together

2. The name often given to the force exerted by the first object on a second object

4. The product of an objects mass and velocity

5. Stored energy that results from the position or shape of an object, this is usally at its highest at the highest point of a roller coaster

6. The tendency of an object to resist any change in its motion

7. An object at rest will remain at rest, and an object moving at a constant velocity will continue moving at a constant velocit, unless it is acted upon by an unbalanced force. Another name is Law of Inertia

9. Force is measured in this unit

11. The name often given to the force exerted by the second object back on the first object

13. Speed in a given direction

16. The rate at which velocity changes

19. the quantity of matter that a body contains

21. A push or pull exerted on an object