

Name: \_\_\_\_\_

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# Newton's Law of Motion

## Across

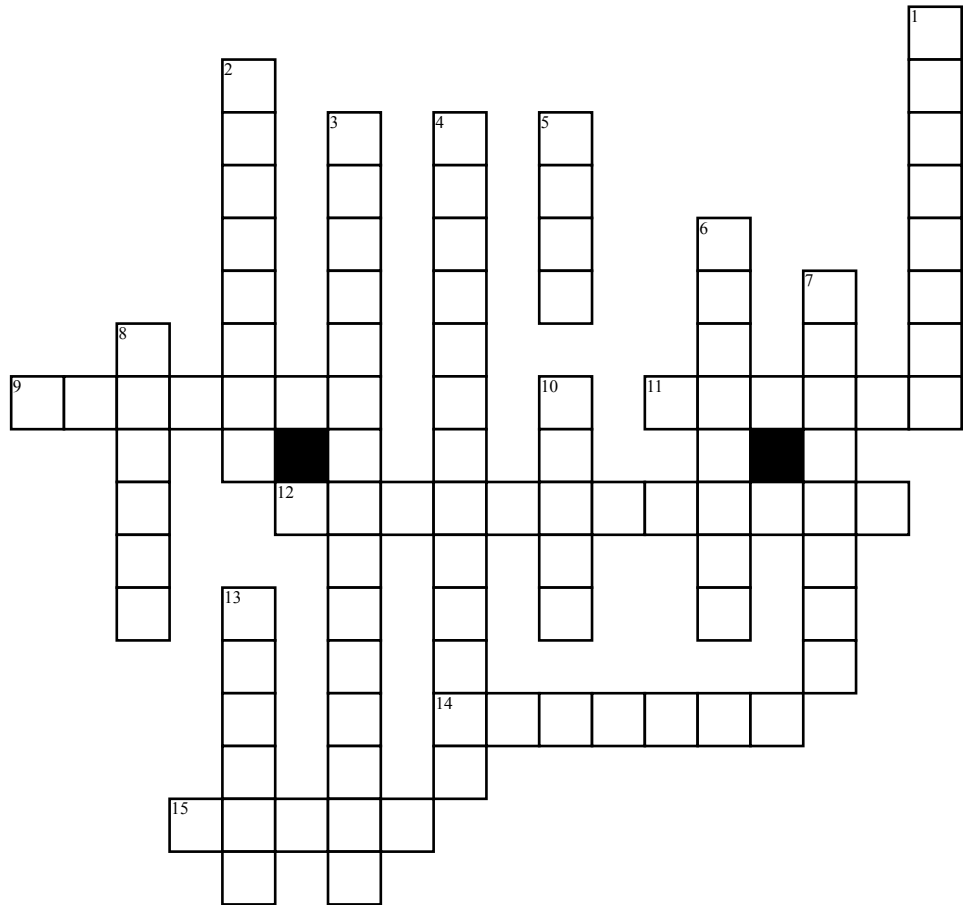
**9.** The tendency of a body to perserve its state of rest or motion unless acted upon by an external force.

**11.** A unit of measure that equalsthe force required to accelerate 1 kilogram of mass at 1 meter per second per second.

**12.** Change of velocity or speed.

**14.** The force of attraction that moves bodies towards the center of the earth.

**15.** Strength or power exerted/put on an object, a push or pull that causes a change in the motion of an object.



## Down

**1.** The resistance of movement on surfaces that touch.

**2.** The rate of speed with which something happens.

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

**4.** Energy that an object has due to its motion.

**5.** The amount of matter in an object.

**6.** The product of an objects mass and velocity.

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

**8.** A measure of the heaviness of an object.

**10.** Rate of motion.

**13.** The state in which one object's distance from another is changing.

