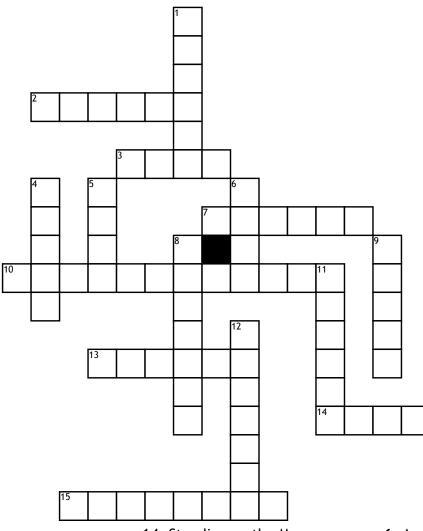
## Newton's First Law of Motion



## <u>Across</u>

**2.** The metric system uses this as the unit for force.

**3.** All matter has this, even in space.

7. A word we use for the force that gravity exerts on an object.10. Any change in the motion of an object.

**13.** An object in motion will remain in...

**14.** Standing on the Moon your mass is the same as on Earth, but your weight is \_\_\_\_\_.

**15.** The metric system uses this as the base unit for mass.

## Down

1. In the system of measurements used in the United States, we use \_\_\_\_\_\_ as a unit for weight.

**4.** A push or a pull.

**5.** The more mass an object **12.** The resistance of the ob to any change in its motion.

**6.** An object at rest will remain at...

8. We have a new equation; Fg = m\*g, or weight = mass \*

9. In the story of Newton coming up with the idea of gravity, this fruit fell on his head.
11. When used in Physics, the word \_\_\_\_\_ means perpindicular
12. The resistance of the object

Word Bank

REST	KILOGRAM	NEWTON	POUNDS	LESS
GRAVITY	INERTIA	MORE	MOTION	WEIGHT
FORCE	ACCELERATION	APPLE	MASS	NORMAL

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