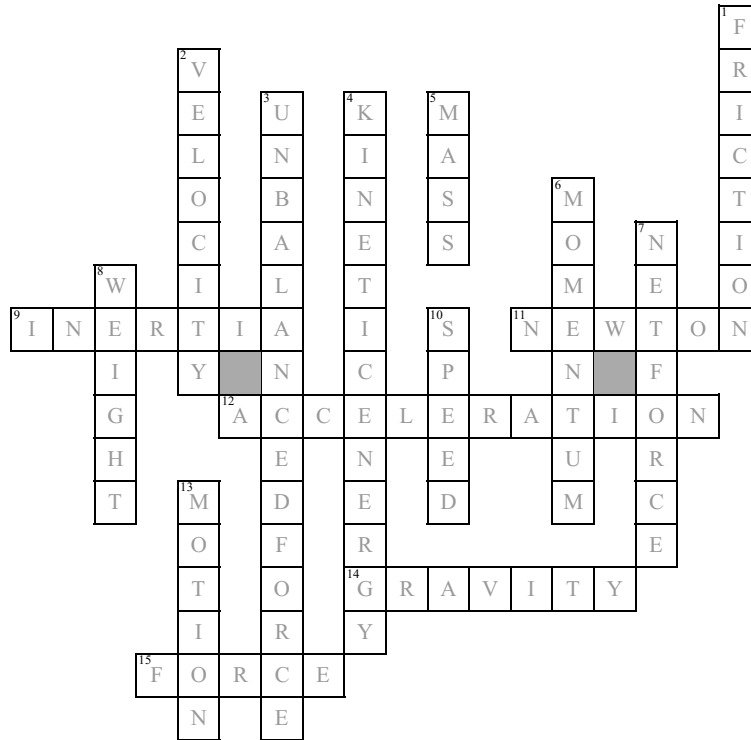


Newton's Law of Motion



Across

9. The tendency of a body to preserve its state of rest or motion unless acted upon by an external force.
11. A unit of measure that equals the 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 object's motion.
4. Energy that an object has due to its motion.
5. The amount of matter in an object.
6. The product of an object's 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.