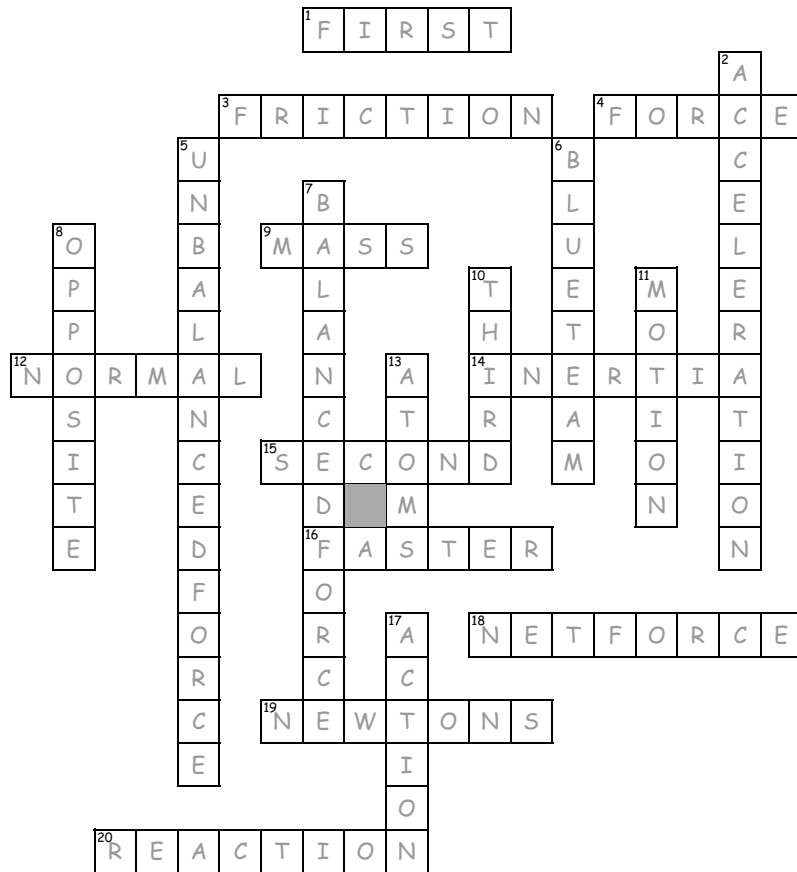


# Newton's Laws of Motion



## Across

- Which law does a seat belt counteract?
- What is the force resisting the motion of solid surfaces, liquid layers and material elements moving against each other?
- What is mass and acceleration used to calculate?
- What is the property of matter that measures its resistance to acceleration?
- \_\_\_\_\_ force is the force that is always acting on every object.
- Newton's first law is also known as the law of \_\_\_\_\_.
- Which law says that the acceleration of an object is dependent on the net force on the object and the objects mass?
- An object with smaller mass accelerates \_\_\_\_\_ than an object with less mass.
- What is the resulting force called when there are forces acting on an object
- What unit is force measured in?
- What kind of force is the force going opposite of the action force?

## Down

- What is the rate of change of an object's velocity?
- Newton's first law states that an object in rest stays at rest and an object in motion stay in motion unless acted upon by what?
- In a game of tug-a-war where the blue team has five players pulling and the red team has three players pulling, which team will win?
- What is it known as when two people push on opposite sides of an object with equal force?
- Newton's third law states that for every action there is an equal and \_\_\_\_\_ reaction.
- A rocket launching is an example of which of Newton's laws?
- Inertia is the resistance of any object to any change in it's state of \_\_\_\_\_.
- Mass is a rough measurement of what in an object?
- Force acting in one direction is what kind of force?