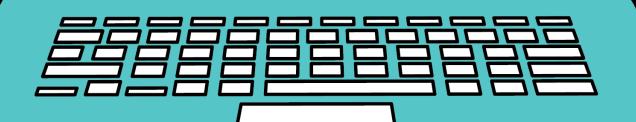


Short Answer	Type Answer Here	Fill in the Blank	Type Answer Here
1. What as N tor first r		<ol> <li>Newton had to leave Cambridge due to the Great</li> </ol>	
2. I w many lay of motion are the		10. Every action has an equal and reaction.	
3. What is a force called?		11. Newton was a professor atersity.	
4. What year did Queen Anne knight Newton?		Newton he smarts personer.	
5. Rowing a boat is an example of which law?		13. Notion in the execution in the second se	
6. What country was Newton from?		the form of force =	
7. What year was Newton president of the Royal Society?		15. The first lands for motion is also called the Law of	
8. What fruit hit Newton on the head?		16. Newton became a member of the Society.	



## LAWS OF MOTION

Sir Isaac to scientist, mathematician, and astronomer from England. He genius ence, calculus, and physics. Albert Einstein thought the viton was marter son ever.

Ney La set le war offess. He preferred to write and wo le in England ne also to le a mem of the Paval Society, a group of the set from Cambridge 13, he set is Prevalled.

Meanwhile, from 1669 to the Creat Plague. So, he wo theories on calculus, or an advanced laws of mo

In 1687, Newton pusished mous Phil sils Principi Mathematica (Mathematical prin s of National Mathematical prin s of National Mathematical Principi outlined the three laws of motion significant science documents ever.

Newton's First Law of Motion states that the same special in motion states that motion (in the same direction and at the same special is force at Likewise, an object at rest remains at rest until a force acts upon it. law of motion is also called the Law of Inertia. If you are traveling and it stops abruptly, your body jerks forward. Similarly, if you are a car and start driving suddenly, your body jerks backwards. These are examples of the Law of Inertia. Other examples to demonstrate the first law of motion are below:

- · A rocket doesn't leave the launch pad until a force exerts upon it.
- A skater will keep skating across the ice until there is an outside force. This
  could be the boards (walls) at the rink, blades turning to stop travel, or
  friction from the ice.
- . A soccer ball stands still until someone kicks, rolls, tosses, or moves it.
- · A runner that keeps running after the finish line.
- · A bicycle that continues moving after you stop pedaling.
- If you bat a baseball, it will move forever until a force interferes. We have never seen a ball move forever, though. This is because the force of gravity makes the ball drop. Also, air provides friction and resistance, making the ball slow down until it eventually stops.

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Newton's Second Law of Motion states that the larger the mass, the more force is needed to stop or accelerate on object. Force can make an object speed up, accelerate, change direction, or slow down. Newton's second law involves the formula: force = mass times acceleration (F=ma). Lighter objects respond to force by moving more quickly. With the baseball bat example, a baseball would fly through the air faster and longer than a watermelon would. Here are some other examples to demonstrate Newton's second law:

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- The harder you swing a baseball bat, the further the ball will go.
- A bag of bricks is much harder to lift than a bag of feathers. The heavier object (more mass) requires more force to lift the item.
- Two cars colliding at a fast rate of speed will have more impact and damage than two cars that bump each other at the drive-through restaurant.

Newbor's Third Law of Motion states that every action has an equal and a site reaction. There are always two forces at the same time, even if it is not feel like it. With the rocket example above, the exhaust from the sch

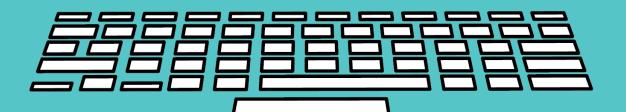
- A per ushes again wall. The wall "pushes" back.
- A pure standing or adownward force of gravity. The ground back.
- g a boat inv pushing to ater backwards to propel the boat ward.
- slingshot sty when it gets . When the slingshot sees, the an or orce the ches the object.
- Incing the nas energy, orce, and the nast make it bounce.

  It is moving downward. As the ball hits, and the earth "pushe to make it bounce."

  It is not incing the nast make it bounce.
- Jumping on soline is a similar imple the bouncing th

Experts say that Issac Newton an apple fell and bopped him on the discoveries, they were important en and a force after him set the foundation for classical mechanics, invented calculus and electing telescope.

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