

LAWS OF MOTION



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LAWS OF MOTION

Sir Isaac Newton was a scientist, mathematician, and astronomer from England. He was a genius in science, calculus, and physics. Albert Einstein thought that Newton was the smartest person ever.

Newton lived a solitary life without lots of friends. He preferred to write and work by himself. Newton was a professor of mathematics at Cambridge University in England. He also became a member of the Royal Society, a group of scientists from Cambridge. In 1703, he served as President of the Royal Society. In 1705, Queen Anne knighted him.

Meanwhile, from 1665 to 1667, Newton had to leave Cambridge due to the Great Plague. So, he worked from home in Woolsthorpe. Here he developed his theories on calculus, gravity, and the laws of motion.

In 1687, Newton published the famous *Philosophiæ Naturalis Principia Mathematica* ("Mathematical principles of Natural Philosophy"). This publication outlined the three laws of motion and the law of gravity. It is one of the most significant science documents ever.

Newton's First Law of Motion states that any object in motion stays in motion (in the same direction and at the same speed) until a force acts on it. Likewise, an object at rest remains at rest until a force acts upon it. The first law of motion is also called the Law of Inertia. If you are traveling in a car and it stops abruptly, your body jerks forward. Similarly, if you are stopped in 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.

What was Newton's first name? *

Cambridge

Albert

Isaac

James

How many laws of motion are there? *

Three

Six

Five

None of the above

What is a unit of force called? *

Strength

Atom

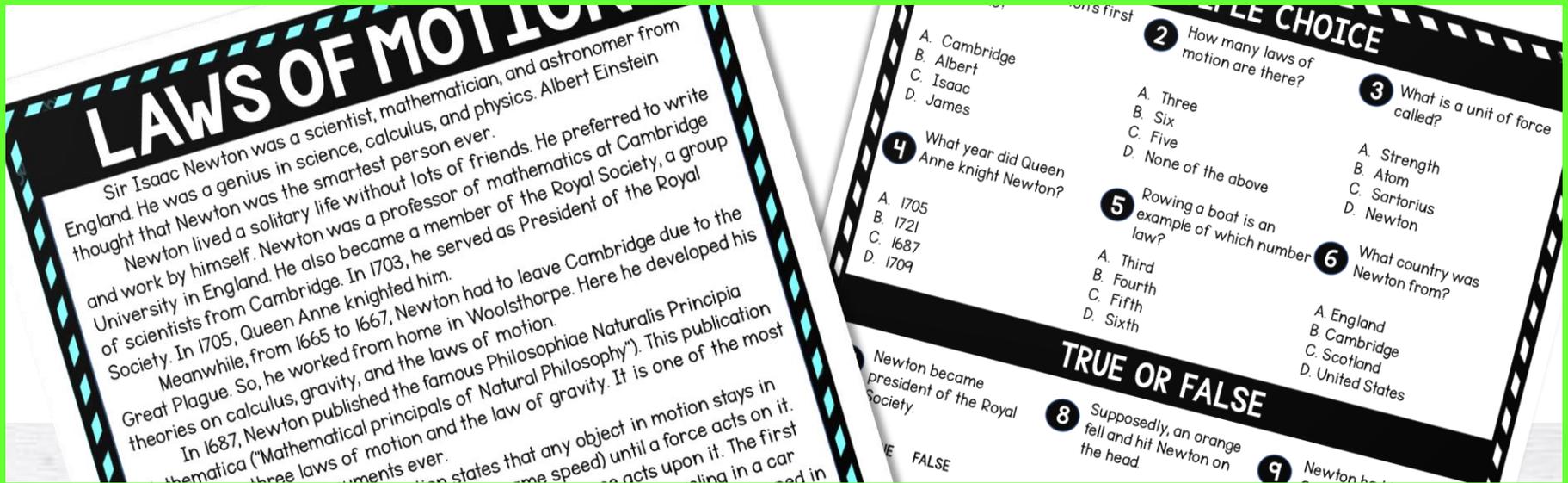
Sartorius

Newton



READING PASSAGE

15 QUESTIONS



DIGITAL OR PRINT



INCLUDED

- ✓ READING PASSAGE
- ✓ TEACHER DIRECTIONS
 - ✓ ANSWER KEY
 - ✓ 15 QUESTIONS
 - ✓ SELF-GRADING
- ✓ PRINTABLE VERSION
- ✓ DIGITAL VERSION



QUESTION TYPES

-  **MULTIPLE CHOICE (6)**
-  **TRUE OR FALSE (9)**
-  **EDITABLE QUESTIONS
(FOR DIGITAL VERSION)**

True

False



STUDENTS NEED

✓ ACCESS TO GOOGLE CLASSROOM™
(IF USING THE DIGITAL FORMAT)

✓ GOOGLE™ ACCOUNTS

✓ KNOW HOW TO ZOOM IN AND ZOOM OUT TO
ENLARGE OR SHRINK THE SCREEN

True

False



BENEFITS

-  SELF-GRADING
-  IMMEDIATE STUDENT FEEDBACK
-  PAPERLESS
-  NO PREP
-  SAVES YOU TIME
-  COMPREHENSION PRACTICE



OPTIONS



FRONT-LOADING



GROUP STATIONS



SUB PLANS



UNIT REVIEW



ENRICHMENT ACTIVITY



DIGITAL



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