

# Sir Isaac Newton



Isaac Newton found out lots of important things about:



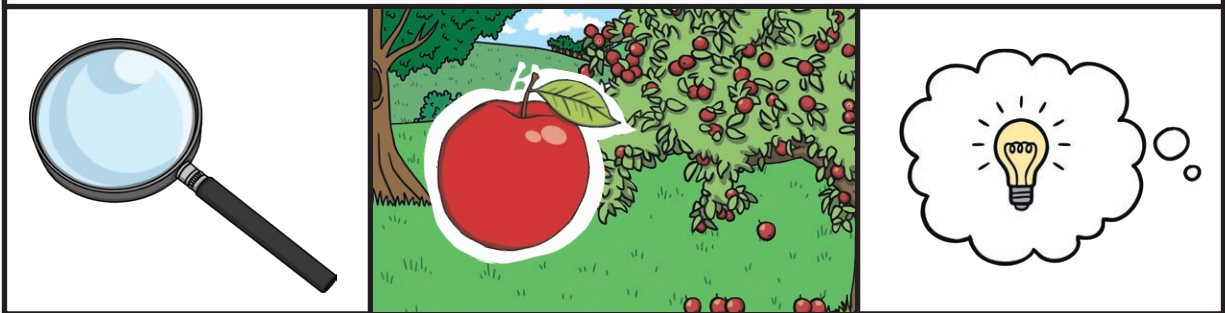
light



how things move

Isaac lived with his grandmother when he was a child. His family had a farm. Isaac wanted to learn more about the world.

He did experiments to try to find things out.



Isaac found out that sunlight is made up of all of the colours of the rainbow.

Isaac saw an apple fall from his tree. This made Isaac wonder. He found that all objects are pulled down to the ground. This is called gravity.



Isaac wrote a book to explain how and why things move.

# Questions

1. Who did young Isaac live with? Tick one.

- his mother
- his uncle
- his grandmother

2. What did Isaac's family own? Tick one.

- a farm
- a shop
- a pub

3. What fell from Isaac's tree? Tick one.

- a leaf
- an apple
- a branch

4. What colour is sunlight? Tick one.

- yellow
- white
- all of the colours of the rainbow

5. What does gravity do to objects? Tick one.

- pulls them to the ground
- pushes them into the sky
- makes them bigger

# Answers

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# Sir Isaac Newton



Sir Isaac Newton was a scientist. He discovered lots about light and how objects move.

## Isaac's Early Life

Isaac was born on 25<sup>th</sup> December 1642 on a farm. He lived with his grandmother when he was a child.

## Isaac's Education

Isaac moved to the city of Cambridge to study. He went to a place called the University of Cambridge. He read lots about scientists from the past. Isaac was interested in what they thought about nature and the world around them.

Isaac wanted to make his own discoveries. He decided to carry out experiments to learn more about how the world worked.

## Isaac's Discoveries

Isaac carried out lots of experiments on his family farm.



## Gravity

Isaac discovered that all objects are pulled down towards the Earth. This pull is called gravity. He also explained how the Moon travels around the Earth. Isaac wrote an important book explaining how and why objects move.

## Light

Isaac found that sunlight is a mixture of all of the colours of the rainbow.

## Did You Know...?

- Isaac's mother wanted him to become a farmer.
- He liked to read books and study.
- People believe that Isaac discovered gravity when he saw an apple fall from a tree.
- The falling apple made Isaac wonder why things fall down to the ground.



# Questions

1. What was Isaac's job? Tick one.

- farmer
- scientist
- doctor

2. Why did Isaac move to Cambridge? Tick one.

- to work
- to study
- to teach

3. Isaac also explained how the Moon travels around the...?  
Tick one.

- Earth
- sun
- galaxy

4. What pulls objects down to the earth?

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5. Fill in the missing word.

Isaac found that \_\_\_\_\_ is a mixture of all of the colours of the rainbow.

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4. What pulls objects down to the earth?

**gravity**

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Isaac found that **sunlight** is a mixture of all of the colours of the rainbow.

# Sir Isaac Newton



Sir Isaac Newton was a scientist who is famous for his important work on **gravity** and light.

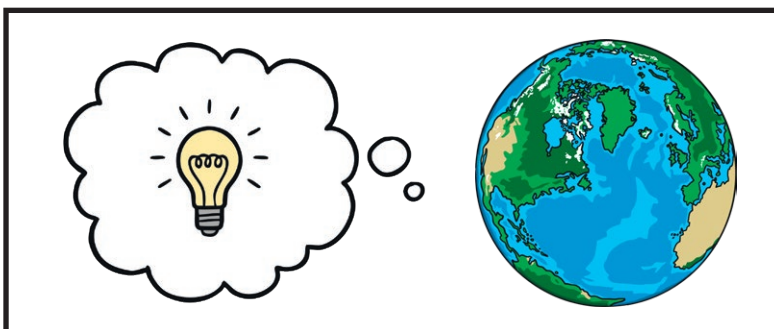
## Isaac's Early Life

Isaac was born on 25<sup>th</sup> December 1642 on a farm in the village of Woolsthorpe in Lincolnshire. He lived with his grandmother before starting school.



## Isaac's Early Life

Isaac moved to live in Cambridge in 1661 so that he could attend **university**. There, he learnt about nature and read books about ancient Greek thinkers. Many people in Isaac's time still believed that the Earth was the centre of the universe.



Isaac soon became interested in the new ideas about science. He wanted to carry out experiments to find new ways of explaining the world around him.

## Did You Know...?

Isaac's mother wanted him to grow up to become a farmer and look after the family farm.

Isaac did not want this career because he preferred to research and experiment.

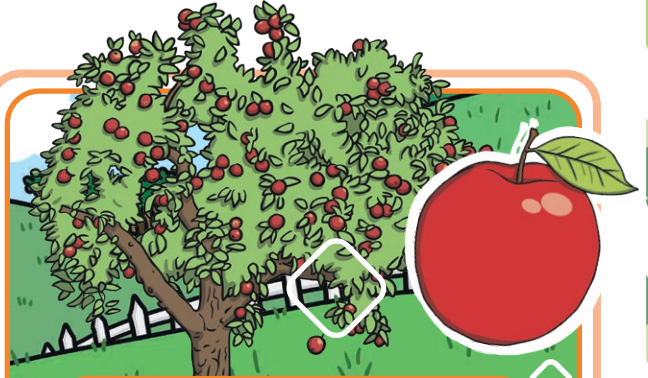
Isaac carried out lots of experiments and he made his most important discoveries while he was living on the family farm in Lincolnshire.

## Isaac's Discoveries

Many people in Cambridge were becoming ill with the **plague** so Isaac moved back to the Lincolnshire countryside until it was safe to return to the city.



Isaac began by experimenting with light and he found that white light is made up of a mixture of colours called a spectrum.



There is a famous story which says that Isaac discovered gravity when an apple fell from a tree and landed on his head.

This made Isaac wonder why objects fall downwards and not upwards. He then realised that this same pushing and pulling force explains how the Moon travels around the Earth. Isaac published a book describing gravity and his ideas about how and why all objects move.

## Glossary

**gravity:** A force that pulls objects towards the Earth.

**plague:** A dangerous disease which spreads quickly.

**university:** A place where adults go to study and continue their education.



# Questions

1. What was Isaac famous for his work on? Tick **two**.

- light
- sound
- gravity

2. Which job did Isaac's mother want him to have? Tick one.

- teacher
- farmer
- doctor

3. Fill in the missing word.

Many people in \_\_\_\_\_ were becoming ill with the plague so Isaac moved back to the Lincolnshire countryside.

4. Find and copy one word which means 'a mixture of colours'.

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5. What did Isaac discover when an apple fell from a tree?

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6. Explain why you think that Isaac's work is important.

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# Answers

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**spectrum**

5. What did Isaac discover when an apple fell from a tree?

**gravity**

6. Explain why you think that Isaac's work is important.

**Pupils' own responses, such as: Isaac was an important scientist because he taught us more about light and gravity. These are two important subjects which tell us more about how the world works.**