Day and Night

With your group, you will need a torch, a globe, sticky tack and a small object the size of a marble.

What to do:

1. Find where you live on the globe. Using the sticky tack, attach the small object to the location.
2. Shine the torch on your location. Then, rotate the globe anticlockwise.
3. Remember to hold the torch still.

Use the word bank to fill in the missing words.

away from	daytime	axis	Earth	rotation

The imaginary line that runs through Earth from north to south is called its _____.

A globe is tilted because _____ is also tilted on its axis. Earth spins round once every 24 hours. This is called a _____ . When our part of Earth is facing the Sun, it is _____ . When our part of Earth is facing _____ _____ the Sun, it is night time.

In your experiment, why did the torch have to stay still?

Day and Night Answers

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away from	daytime	axis	Earth	rotation

The imaginary line that runs through Earth from north to south is called its **axis**. A globe is tilted because **Earth** is also tilted on its axis. Earth spins round once every 24 hours. This is called a **rotation**. When our part of Earth is facing the Sun, it is **daytime**. When our part of Earth is facing **away from** the Sun, it is night time.

In your experiment, why did the torch have to stay still?

The torch stayed still because the Sun does not rotate or revolve. Earth's rotation makes the Sun appear to move in the sky, but it is actually Earth that is moving.

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Fill in the missing words.

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The imaginary line that runs through Earth from north to south is called its **axis**. A globe is tilted because **Earth** is also tilted on its axis. Earth spins round once every 24 hours. This is called a **rotation**. When our part of Earth is facing the Sun, it is **daytime**. When our part of Earth is facing **away from** the Sun, it is night time.

In your experiment, why did the torch have to stay still?

The torch stayed still because the Sun does not rotate or revolve. Earth's rotation makes the Sun appear to move in the sky, but it is actually Earth that is moving.

Day and Night

With your group, you will need a torch, a globe, sticky tack and a small object the size of a marble.

Explain what you did:

- _____
- _____
- _____

Explain how day and night occur. Include an explanation about Earth's axis. Use the words

axis	tilted	rotation	24 hours	north	south

Why does the Sun appear to move in the sky? How did you reflect this in your model?

Day and Night Answers

With your group, you will need a torch, a globe, sticky tack and a small object the size of a marble.

What to do:

The children's models and diagrams should demonstrate that Earth rotates in an anticlockwise direction and that the Sun does not move. It should demonstrate that places facing away from the Sun are in night time and places facing towards the Sun are in daytime.

Explain how day and night occur. Include an explanation about Earth's axis. Use the words

axis	tilted	rotation	24 hours	north	south

Example answer: The imaginary line that runs through Earth from north to south is called its axis. A globe is tilted because Earth is also tilted on its axis. Earth spins round once every 24 hours. This is called a rotation. When a part of Earth is facing the Sun, it is daytime. When a part of Earth is facing away from the sun, it is night time.

Why does the Sun appear to move in the sky? How did you reflect this in your model?

The Sun does not rotate or revolve. Earth's rotation makes the Sun appear to move in the sky but it is actually Earth that is moving. In the model, Earth moves anticlockwise but the torch doesn't move.