

WALT: explain day and night and the apparent movement of the Sun across the sky

Think about:

How many hours are there in a day?

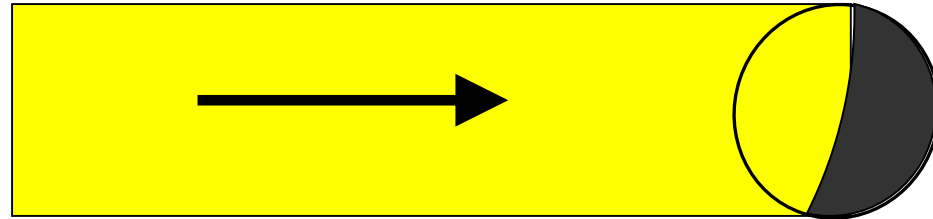
How many days in a year?

It takes the Earth 1 year to orbit the sun.

What does 'orbit' mean?

The Earth is a sphere.

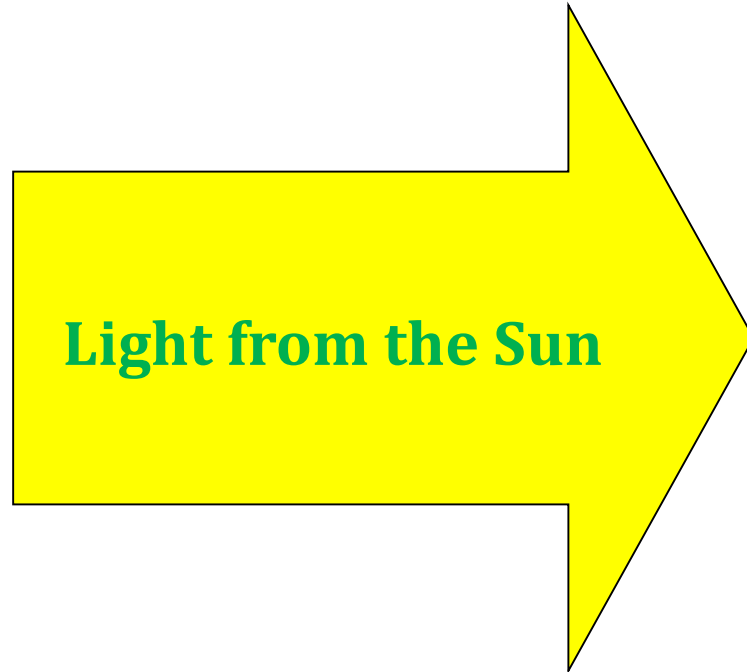
The Sun cannot shine on both sides of the Earth at the same time



- Some of the Earth is bright - day
- Some is dark – night
- The Earth spins so each part has day and night.

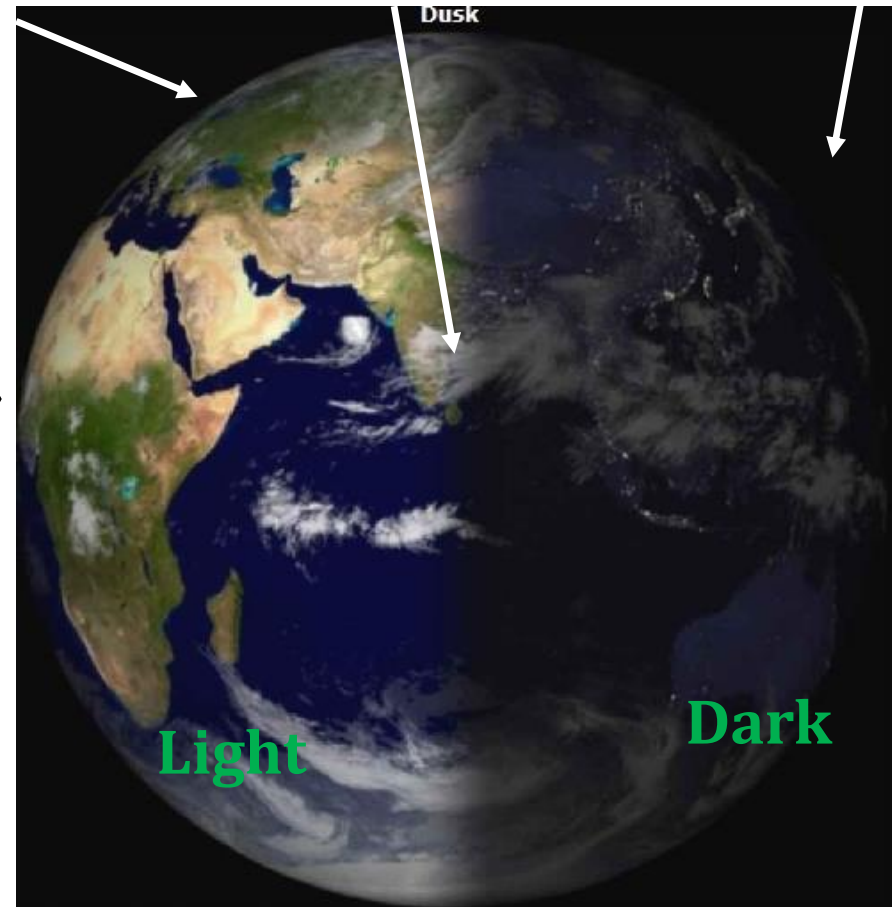
Day and night

Daylight in the UK



Dusk in India

Dark in China



At midday here, it is dawn in the USA, but dusk in India.



Watch the following clips:

<https://www.youtube.com/watch?v=Wr-CRkSTYGs>

<https://www.bbc.co.uk/bitesize/clips/z8ptsbk>

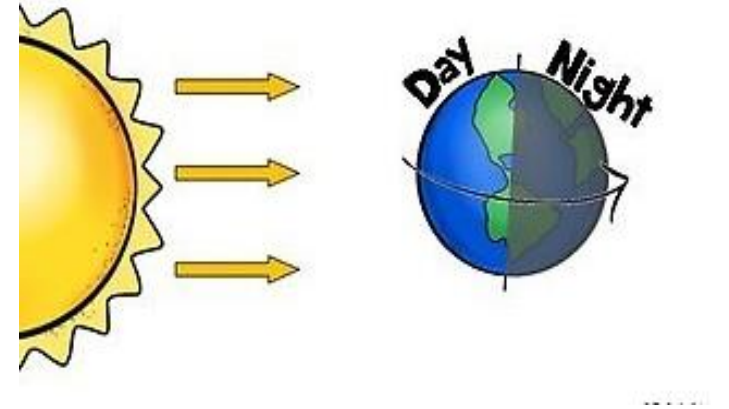
<https://www.bbc.co.uk/bitesize/clips/zrd9wmn>

<https://www.bbc.co.uk/bitesize/clips/z6vfb9q>

<https://www.bbc.co.uk/bitesize/clips/zkynvcw>

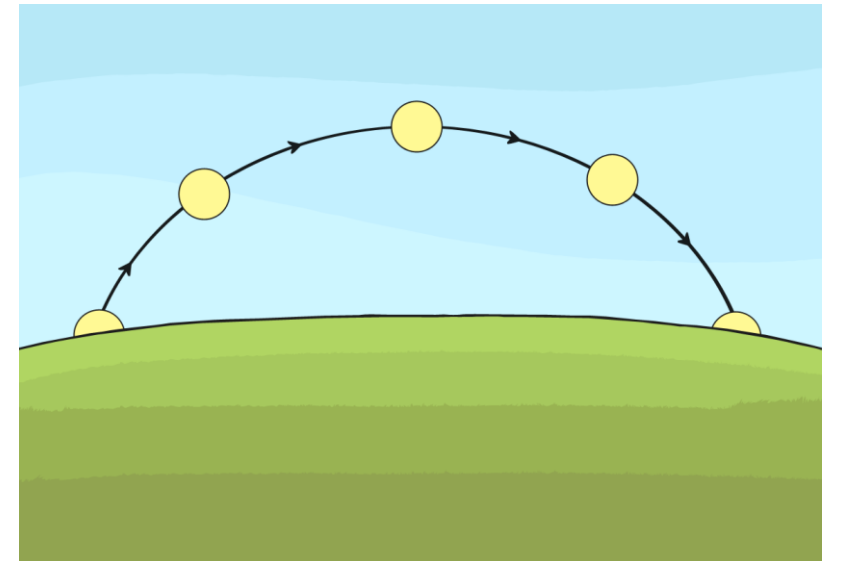
How do we have day and night?

We have day and night because the Earth rotates on its axis and travels around the sun. Different parts of the planet are facing towards the Sun or away from it. The side of the Earth facing the sun is in daytime, whilst the side facing away from the sun is in night time.



It takes 24 hours for the Earth to rotate all the way around, and we call this a day.

The sun does NOT move. It seems to move across the sky, but it is actually the Earth turning on its axis.



Task 1:

You will recreate the movement of the Earth by using balls/balloons. Using a torch, one person will shine it on the sphere, whilst another rotates it slowly on its axis. Each place will pass through night and day.

Task 2:

Draw a labelled diagram, such as the one below. Write an explanation to explain how day and night happens. Remember to use scientific vocabulary.

