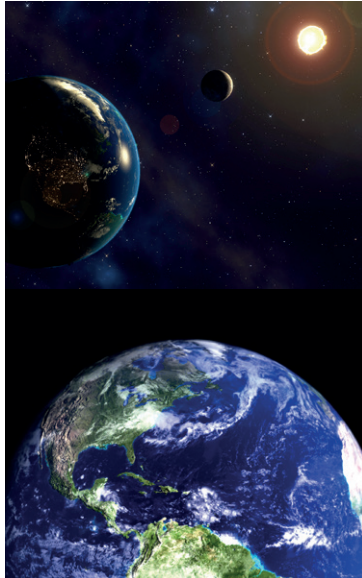


Planet Earth

Why do we live on Earth? Well, Earth is the only planet in our solar system that has all the things we need to live: oxygen in the air to breathe, water to drink and all at just the right temperature warmed by the Sun.

The Blue Planet:

Earth is third planet from the Sun and is also called 'The Blue Planet' because of how it looks from space – blue. This is because over $\frac{2}{3}$ of the Earth's surface is covered in water.



Did you know?

Age: about 4.54 billion years

Diameter: 13,000 km

Distance to Sun: 150,000,000 km

Surface Temperature: 15°C

Highest point: Mount Everest 8.8 km

Lowest point: Challenger Deep 10.9 km below sea level

I'm Spinning Around:

The Earth spins on its axis once every 24 hours – that's what gives us day and night as we spin to face the Sun and then away from it again. You wouldn't notice but the Earth's spin is actually slowing down by 17 milliseconds per hundred years. Eventually this will lengthen our days but it will take around 140 million years before our day will have increased from 24 to 25 hours. I wonder if children 140 million years from now will have an extra hour at school.

Whilst it is spinning, the Earth is also orbiting the Sun, which takes $365\frac{1}{4}$ days to do one full circuit. This gives us the length of our years. Our seasons are also dependent on the orbit of the Earth as our planet is tilted at an angle. This means that around one side of the Sun we are tilted towards it – giving us warmer temperatures and longer days...our summer. However, around the other side of the Sun we are tilted away from it giving us less light and cooler temperatures – so this is our winter. All in all, it's a pretty amazing planet and I, for one, am glad to call it home.

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Questions About Planet Earth

1. How high is the highest mountain on Earth?

2. How long does it take the Earth to spin once on its axis?

3. Will the Earth always spin at this speed? If not, how will it change?

4. How many planets are between us and the Sun and can you name them?

5. Why do we experience summer around one side of the Sun?

6. Why is Earth also called 'The Blue Planet'?

7. What 3 things make it possible for us to survive on Earth?

8. Why do we need to add an extra day to our year every 4 years?

Questions About Planet Earth

Answers

1. How high is the highest mountain on Earth?

8.8km

2. How long does it take the Earth to spin once on its axis?

24 hours/1 day

3. Will the Earth always spin at this speed? If not, how will it change?

No – it is slowing down

4. How many planets are between us and the Sun and can you name them?

2 (Mercury and Venus)

5. Why do we experience summer around one side of the Sun?

The Earth is tilted towards the Sun

6. Why is Earth also called 'The Blue Planet'?

Water makes up 2/3 of the surface so it looks blue from space.

7. What 3 things make it possible for us to survive on Earth?

Water, air (or oxygen), warmth

8. Why do we need to add an extra day to our year every 4 years?

Due to the fact we have an extra ¼ day every year we orbit the Sun

9. Which fact or piece of information has amazed you the most and why?

Open ended to discuss.

10. Find out more about Challenger Deep on the Internet.

Open ended to discuss. May want to do this as a class with the LA group presenting what they have found out.