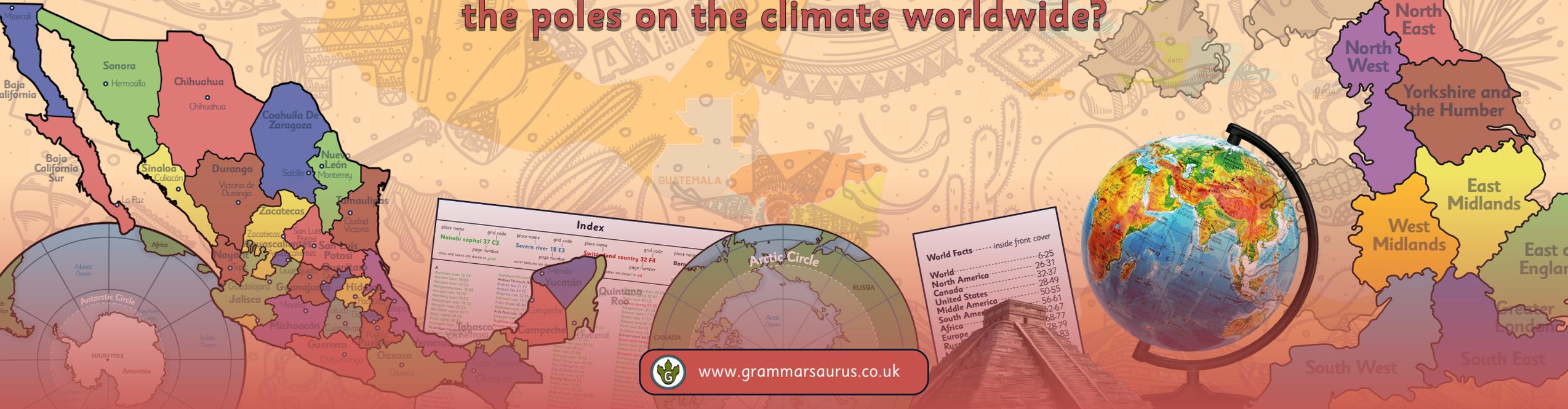


My Local Area and Tulum, Mexico

What are the effects of the equator and the poles on the climate worldwide?



place name	grid code	place name	grid code	place name	grid code	place name	grid code
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World Facts	inside front cover
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Can I use globes and atlases to understand the world?



Key question we will answer:

Can I use atlases and globes to discover the continents and oceans of the world?

Key geographical knowledge we will use: Locational Knowledge

Key geographical concepts we will use: Place, Space and Scale

Key question we will answer:

What are the effects of the equator and the poles on the climate worldwide?

Key geographical knowledge we will use: Physical Geography

Key geographical concepts we will use: Place, Space and Scale

Key question we will answer:

What are the UK's countries, capital cities and surrounding seas?

Key geographical knowledge we will use: Locational Knowledge

Key geographical concepts we will use: Place, Space and Scale



Key vocabulary for this lesson:

atlas

– a collection of maps in book form

continents

– any of the world's main continuous expanses of land (Europe, Asia, Africa, North and South America, Oceania, Antarctica)

climate

– describes average weather conditions over long periods and large areas

Earth

– the planet on which we live

equator

– an imaginary circle around Earth that divides it into two equal parts

map

– a diagram showing where places are located and their features

North Pole

– the northernmost point on Earth

oceans

– areas of salty water that fill enormous basins on the Earth's surface

season

– the cycle of weather changes that is usually divided into four parts

South Pole

– the southernmost point on Earth



The different parts of the world



Hi! **My name is Allisandra.** I am a **geographer.** I use **maps** and **global positioning** systems as part of my job. When we look at the **Earth,** we can divide it into various sections, such as:

- **northern hemisphere**
- **southern hemisphere**
- **North Pole**
- **South Pole**

The **equator** separates the northern and southern hemispheres. Today, we will learn about the equator, the North Pole and the South Pole.



What is the equator?



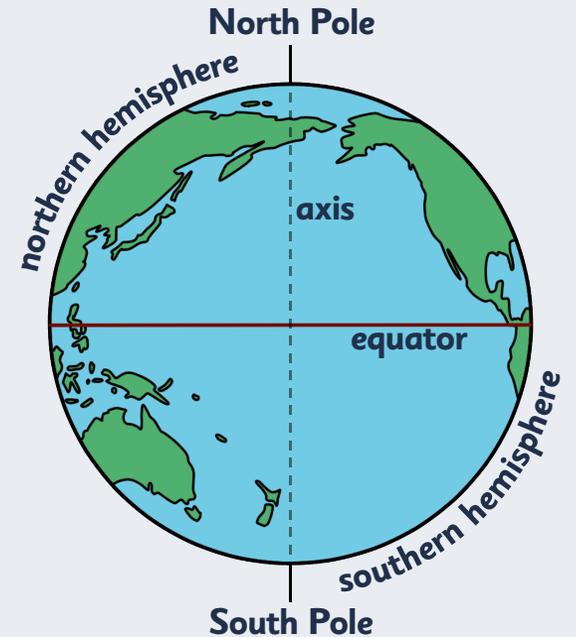
Hi! **My name is Jada.** I am a **meteorologist.** I collect and study data from the atmosphere and oceans to make **weather forecasts** and **conduct research.** Here is a **video** you can watch that explains the different parts of the world:

<https://www.bbc.co.uk/teach/class-clips-video/geography-ks1-ks2-the-world/zkk6t39>

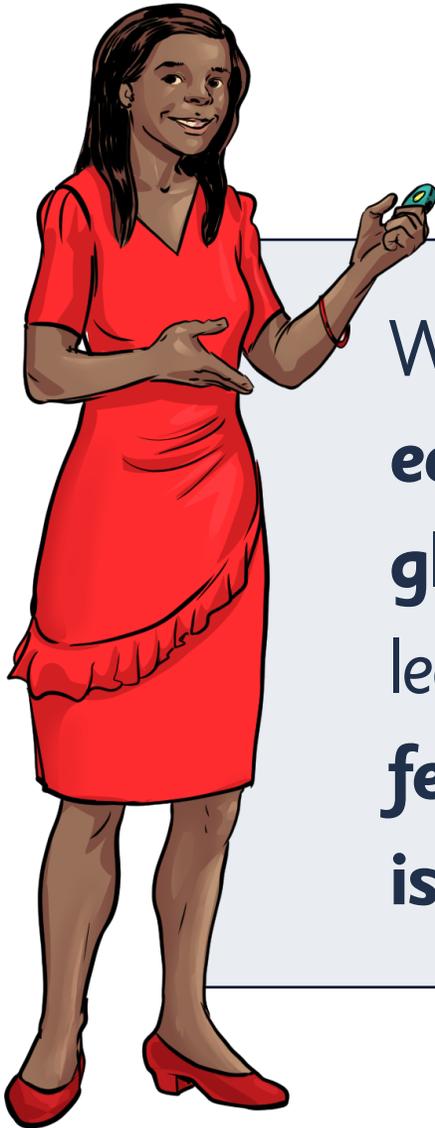
The Earth's **equator** is the imaginary line that runs around the Earth's centre. It divides the world in half. The top half is called the **northern hemisphere**, and the bottom half is called the **southern hemisphere.**

The weather on the equator is **hot all year** round.
At the equator, day and night are both **12 hours** long.

Can you find it on your globe?



Let's discuss

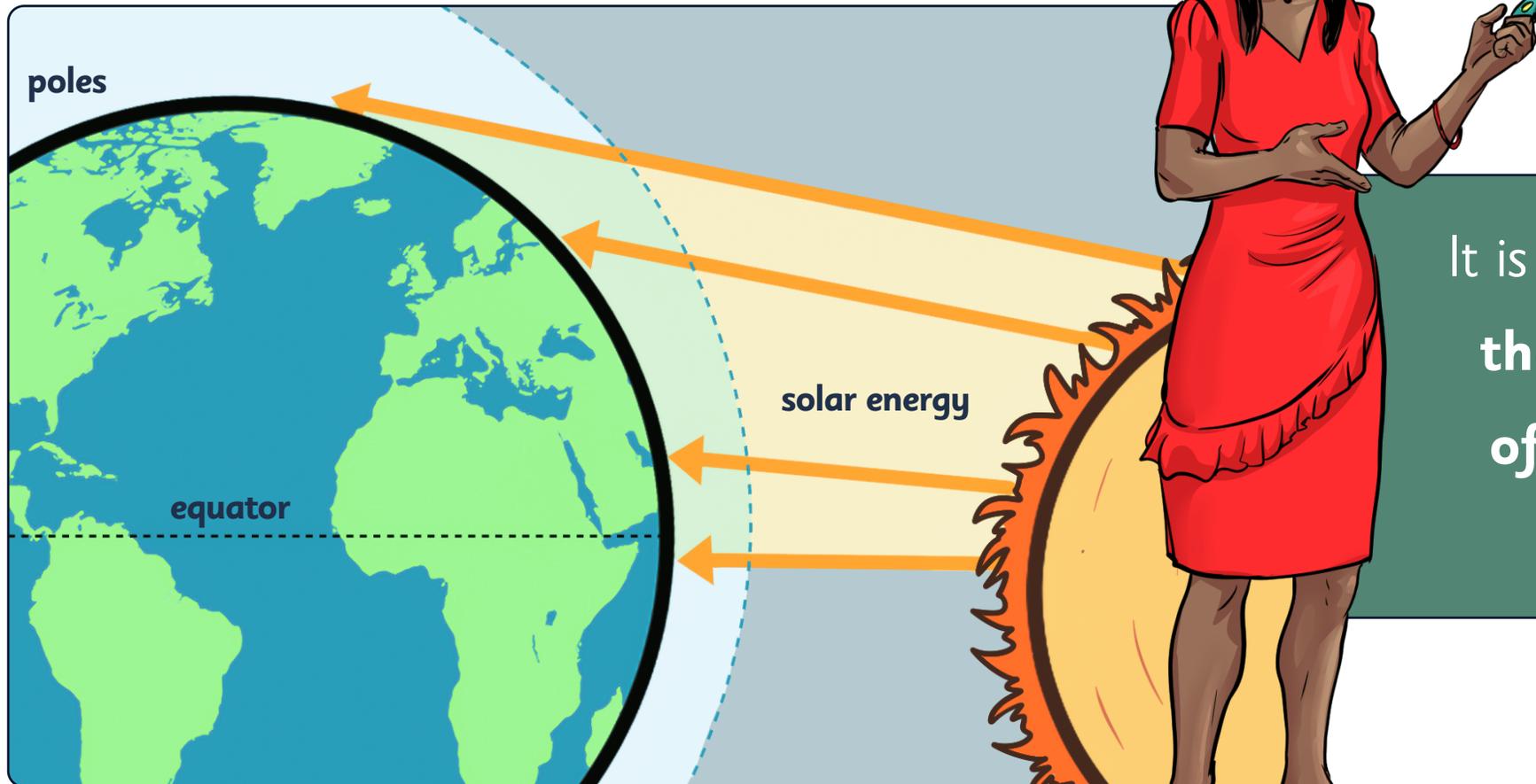


Why do you think the **locations along the equator** are hot all year? Look at your **globe** to help you. **Discuss this** with your learning partner. Be ready to **share your feedback** with the class **before the answer is revealed**.



Let's discuss

answers

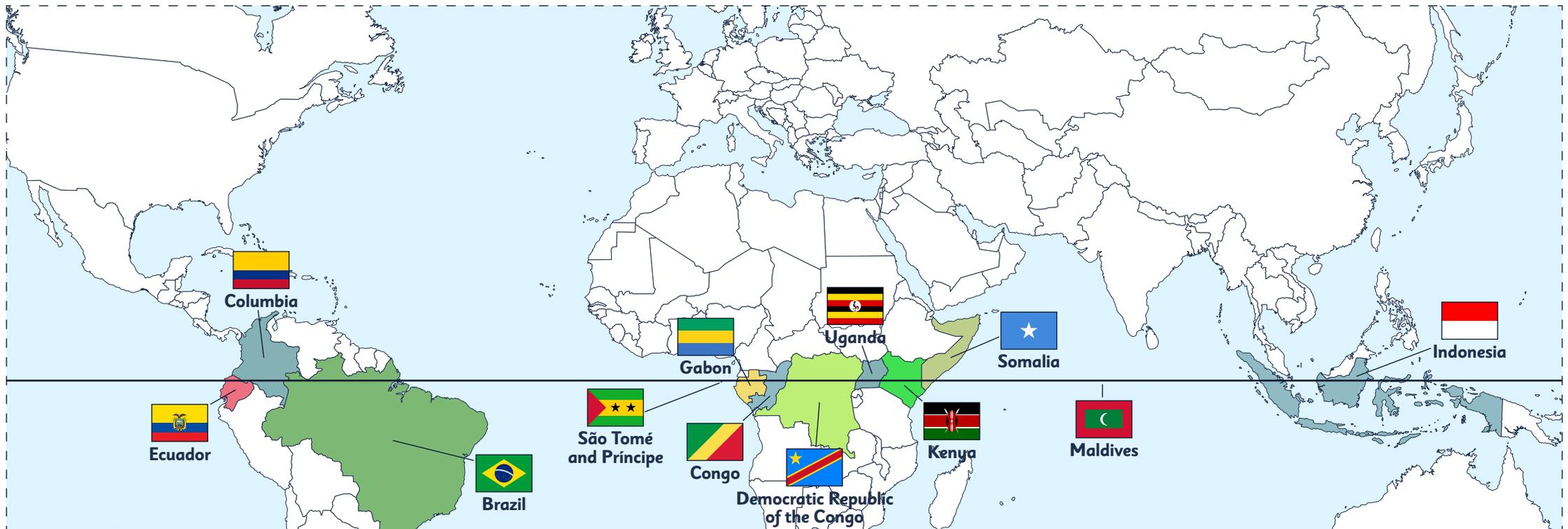


It is hot because it is
the closest part
of the Earth to
the Sun.

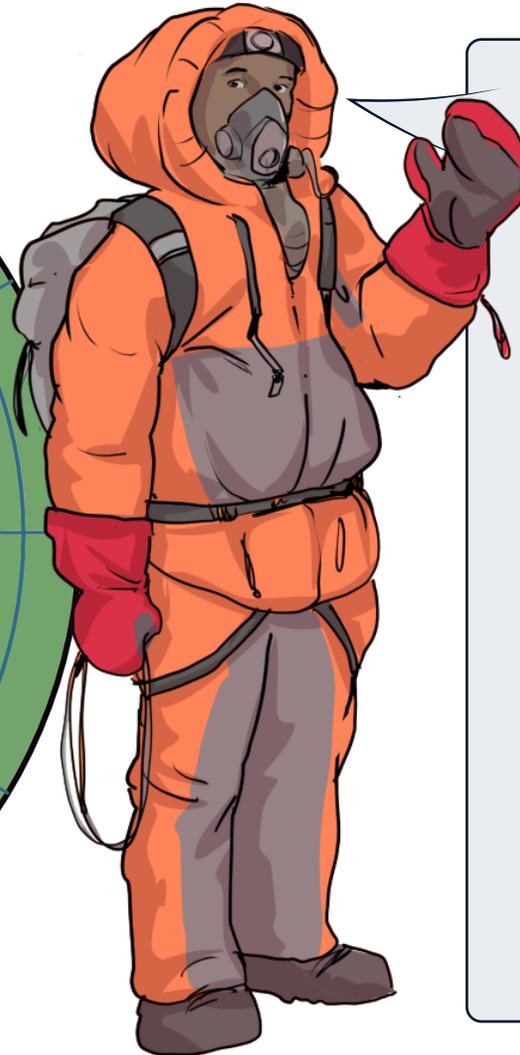
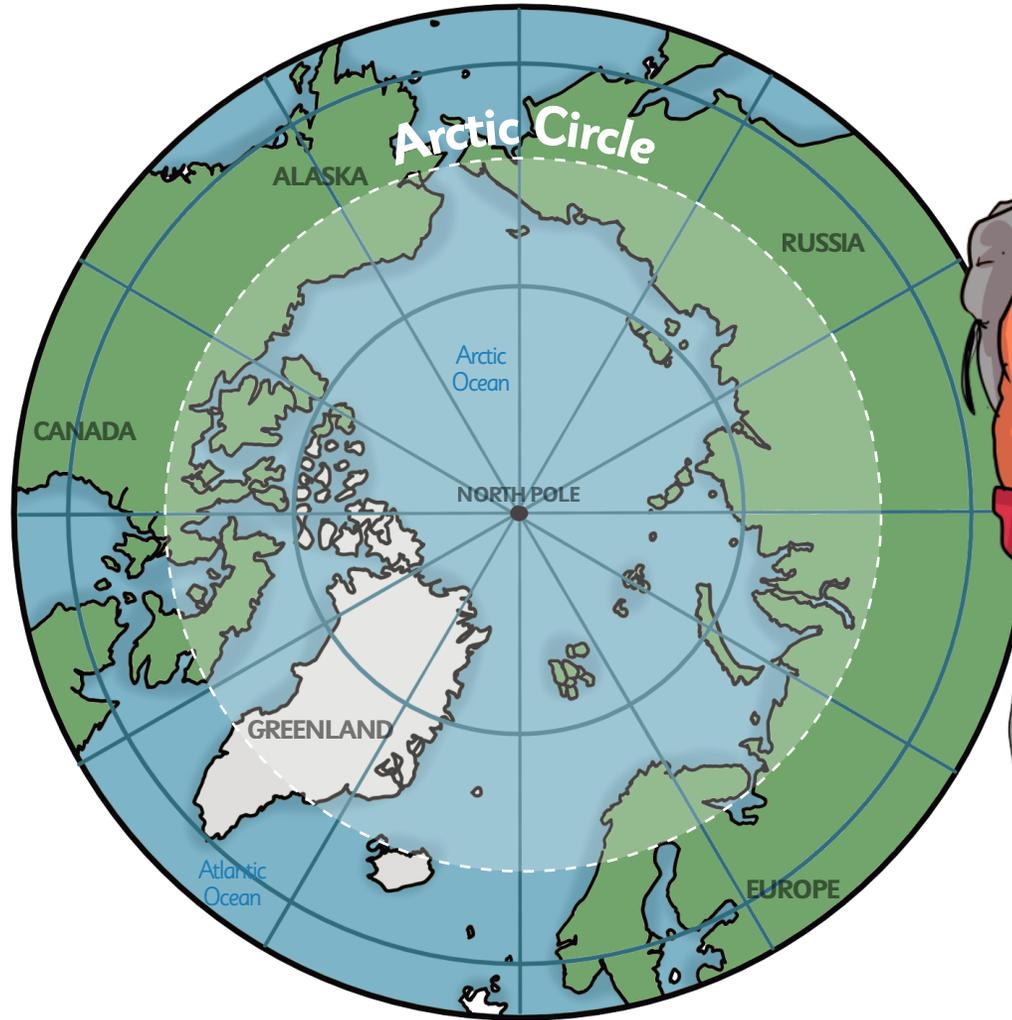


Countries along the equator

Here is a **map of the countries along the equator**. Can you **locate them on your globe**? Find them on your globe **with your learning partner**.



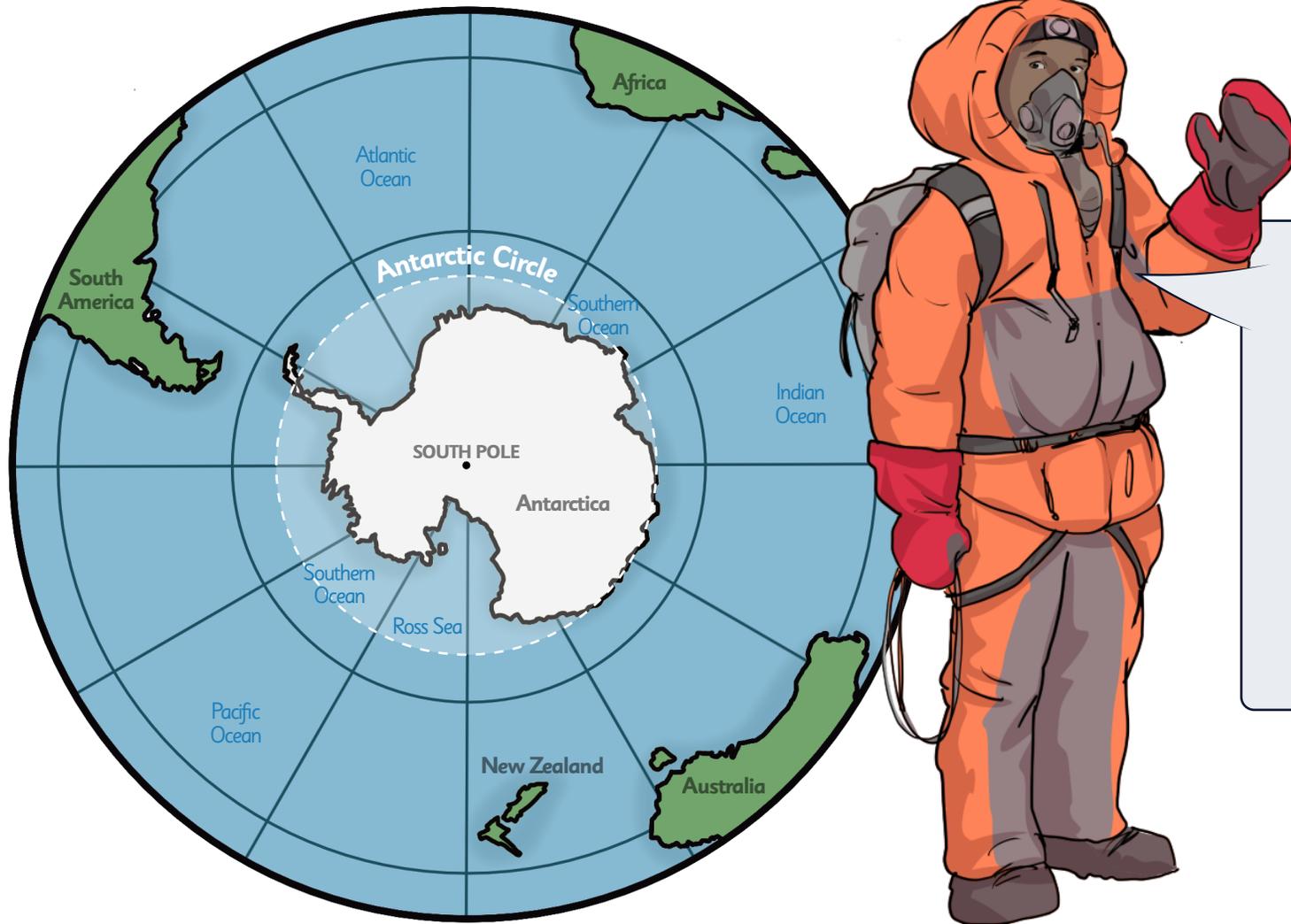
What is the North Pole?



Hi! **My name is Douglas.** I am a **polar scientist.** I use scientific knowledge about the **Arctic** and the **Antarctic** in my job. The **North Pole** is the northernmost point on Earth. There is no land at the North Pole, **only ice.** The ice is about three metres thick. The North Pole is not in any country. In summer, the North Pole is in **sunlight all day,** and in winter, it is in **darkness all day.** When standing on the North Pole, **any direction you point is south!**



What is the South Pole?



The **South Pole** is the southernmost place on Earth. It is located on land topped by more than **2700 metres of solid ice**. The South Pole is **much colder** than the North Pole.

Can you find it on your globe?



The climate along the equator



Indonesia

Countries near the equator **don't experience the four seasons** like other places on Earth.



Kenya

Generally, there are **two seasons** in the countries along the equator, **wet** and **dry**. The wet season lasts most of the year. Along with the warmth, this creates **tropical rainforests**.

Remember, it is hot because it is the closest part of the Earth to the Sun.



The climate in the Arctic and the North Pole

In the **winter**, the **North Pole** tilts away from the **Sun**, and in **summer**, the **North Pole** is tilted **towards the Sun**. This is why it gets **months of darkness** and then **months of light**.

The **Arctic** only has **two seasons**. It has **long, cold winters** and **short, cool summers**. The winters last for about **eight months**.

The average temperatures in the Arctic range from about **12°C in the summer** to about **-34°C in the winter**.



The climate in Antarctica and the South Pole

Antarctica is the **coldest** and **windiest place on Earth**. The lowest temperature ever recorded here was **-89°C!** Antarctica's winter also lasts for **eight months**.

Over **98% of Antarctica is permanently covered in ice** because it is so cold. The average **thickness** of this ice is about **one mile!**



Activity 1



How do the equator and the poles affect the climate across the world?
 Key Geographical Skills: Physical Geography ★★ ★
 Key Geographical Concepts: Place, Space and Scale

Can you **locate and label the equator**? Can you **locate and label the North and South Poles**? Use the knowledge you have gained to decide which areas have a **hot climate** and which have a **cold climate**. Colour the areas with a cold climate **blue**. Colour the hottest areas in **orange**.

How do the equator and the poles affect the climate across the world?
 Key Geographical Skills: Physical Geography ★
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Can you **locate and label the equator**? Can you **locate and label the North and South Poles**? Use the knowledge you have gained to decide which areas have a **hot climate** and which have a **cold climate**. Colour the areas with a cold climate **blue**. Colour the hottest areas in **orange**.

Use the knowledge you have gained to **locate the equator, North Pole and South Pole** on your **activity 1 worksheet**.

Can you decide **which areas have a hot or cold climate**?

Word Bank North Pole South Pole equator www.grammarsaurus.co.uk

Challenge



Decide if you think the countries would have a **hot or cold climate** and **sort them into the table** on your **challenge worksheet**. Look carefully at the list and **use your atlas to help you**.

Challenge

Decide if you think these countries would have a **hot or cold climate** and **sort them into the table**. Look carefully at the list and **use your atlas to help you**.



Uganda



Maldives



Iceland



Brazil



Canada



Greenland

Hot	Cold