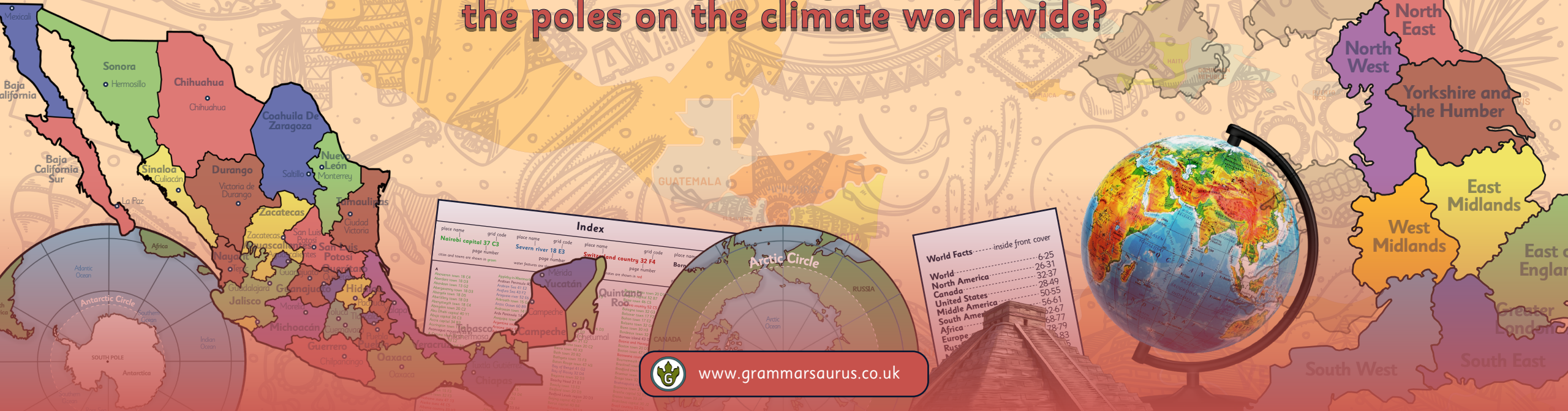


My Local Area and Tulum, Mexico

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



www.grammarsaurus.co.uk

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?

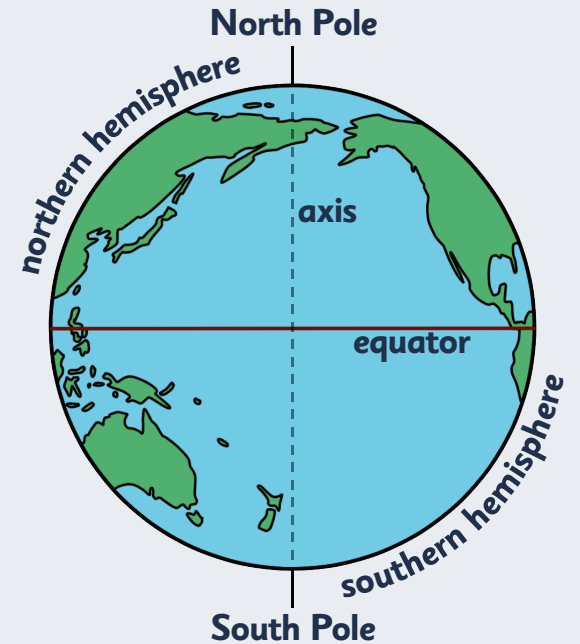


Hi! **My name is Jada.** I am a **meteorologist.** I collect and study data from the atmosphere and oceans to make **weather forecasts** and **conduct research.** Here is a **video** you can watch that explains the different parts of the world:

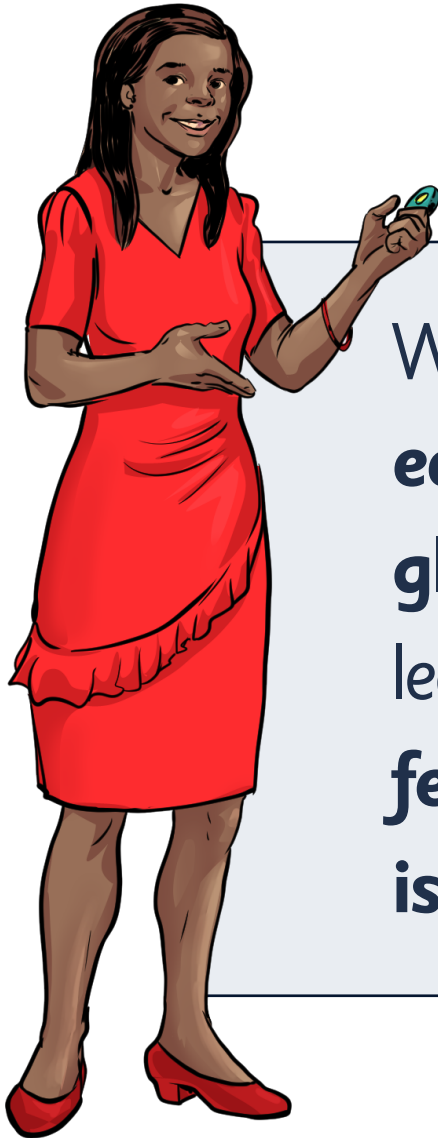
<https://www.bbc.co.uk/teach/class-clips-video/geography-ks1-ks2-the-world/zkk6t39>

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?

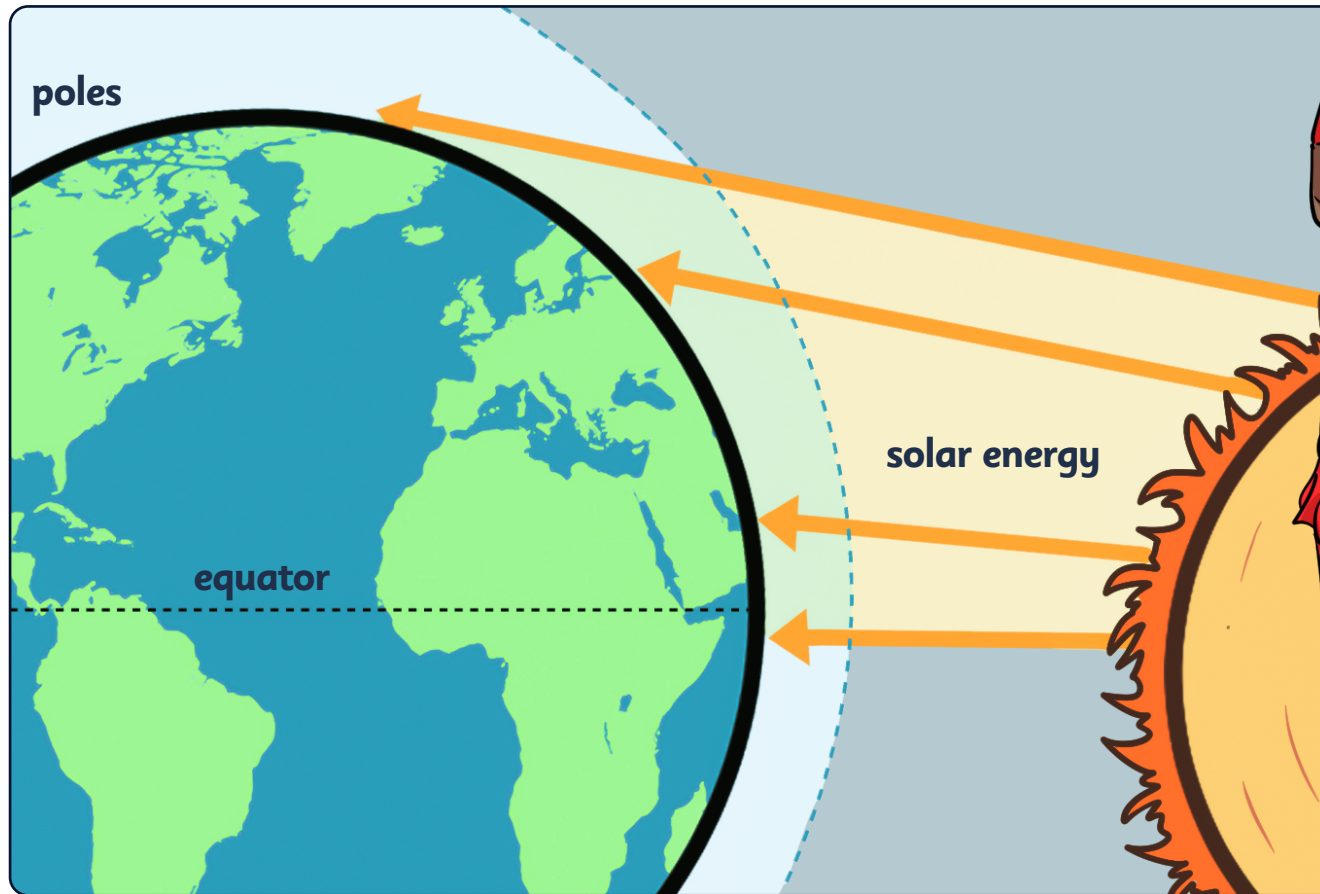


Let's discuss



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.**



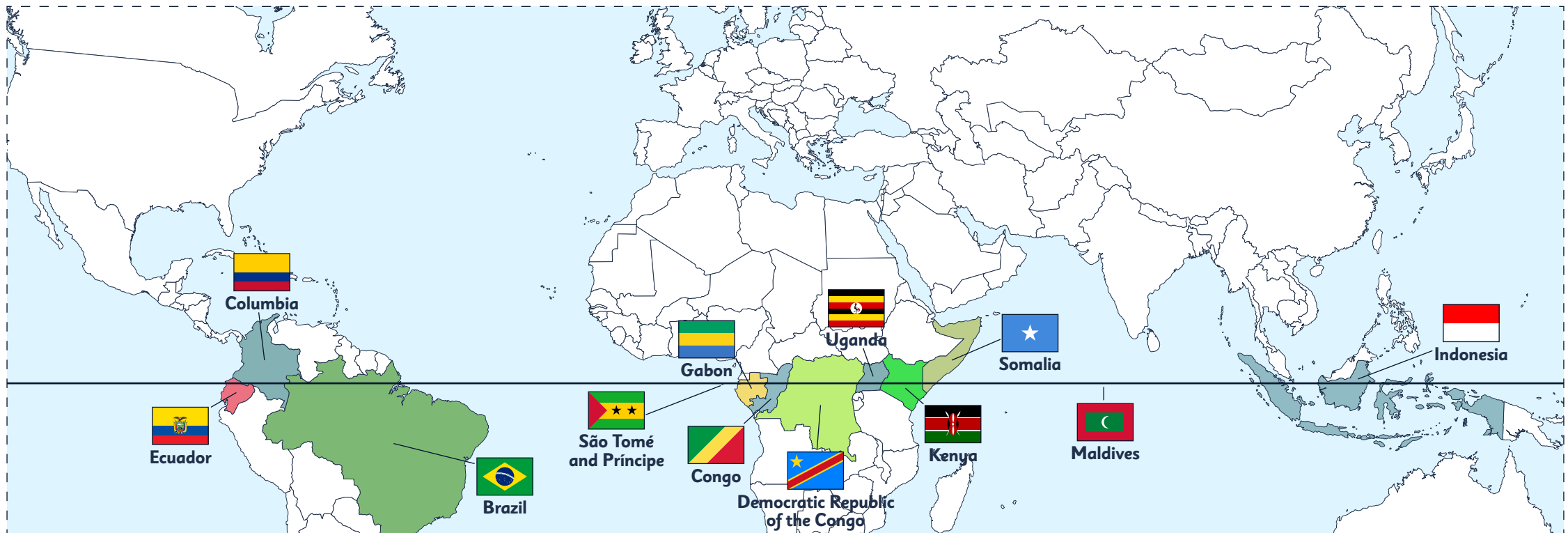


It is hot because it is
**the closest part
of the Earth to
the Sun.**

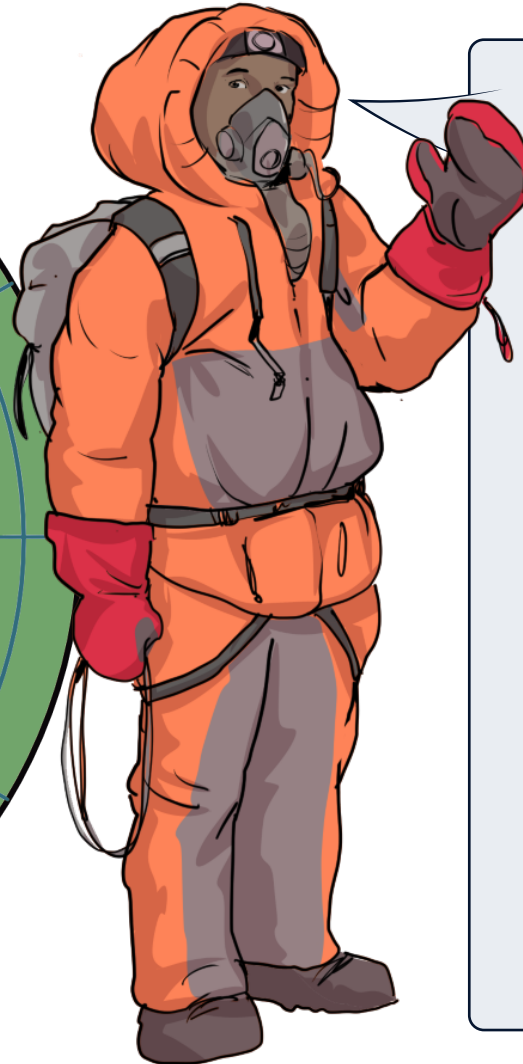
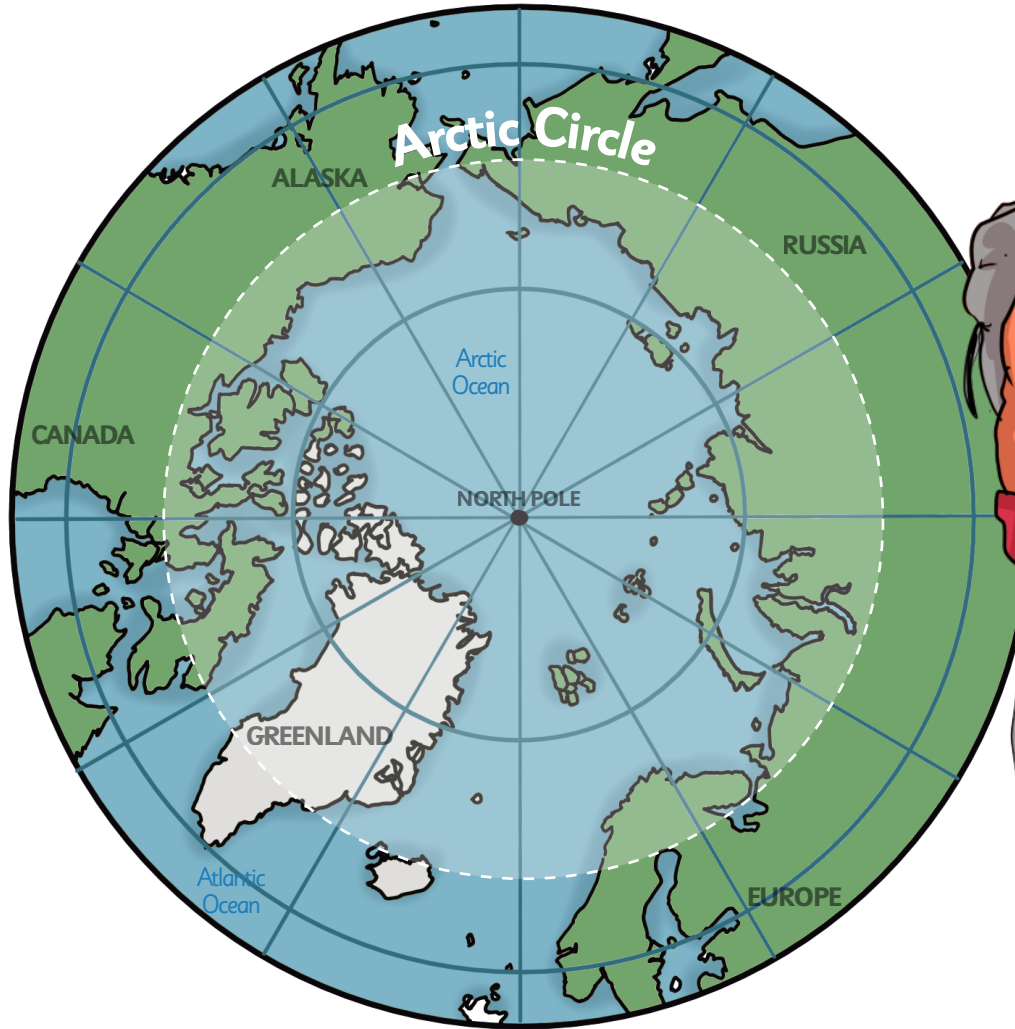


Countries along the equator

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**.



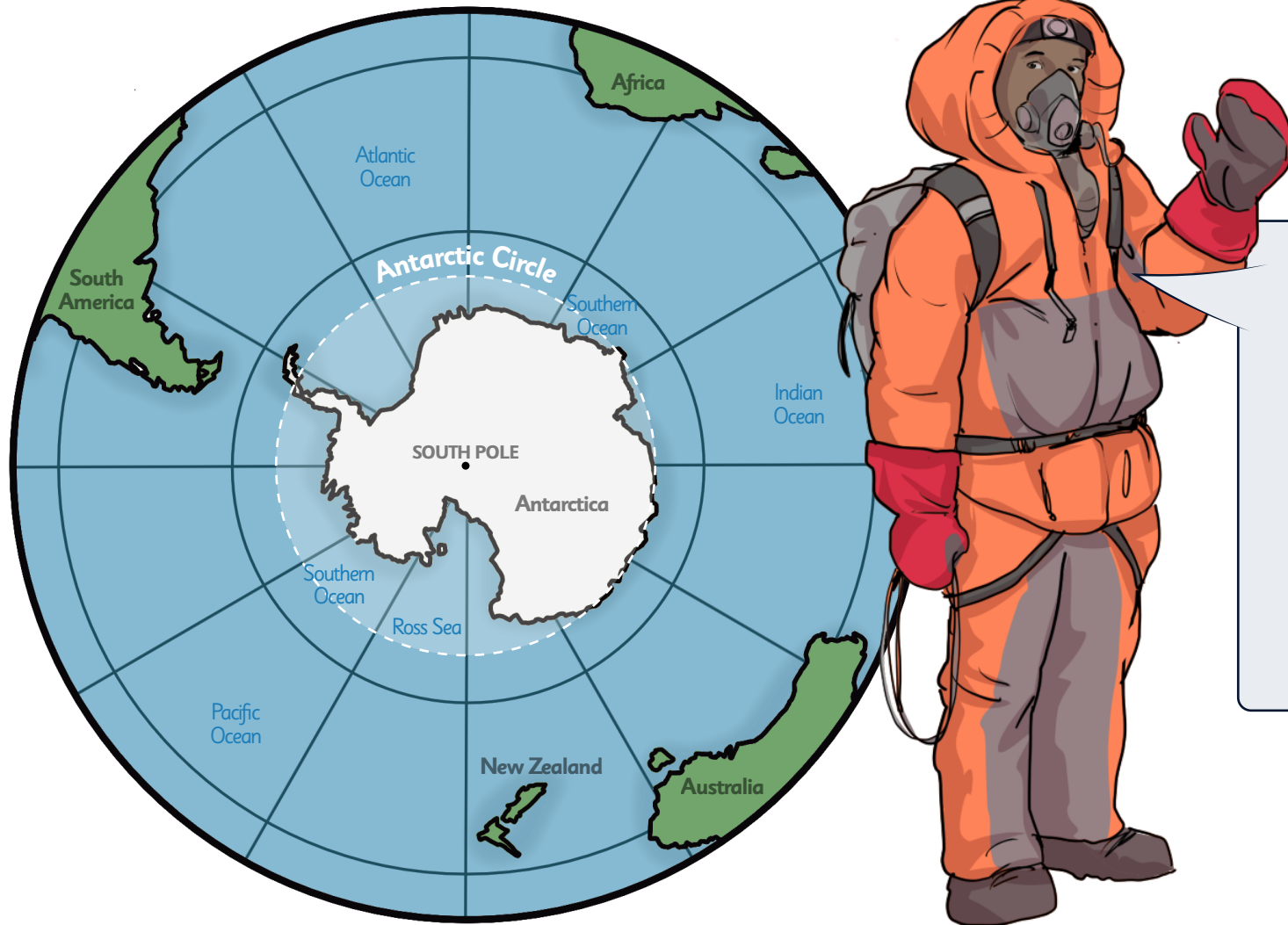
What is the North Pole?



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

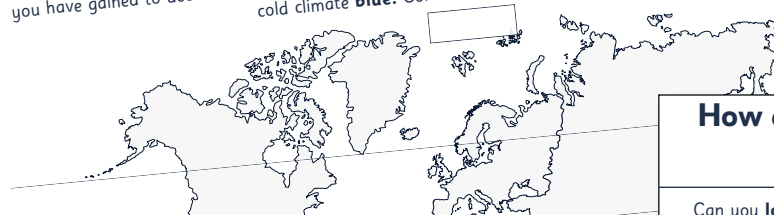


Use the knowledge you have gained to **locate the equator, North Pole and South Pole** on your **activity 1 worksheet**.

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

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 ★★ ★

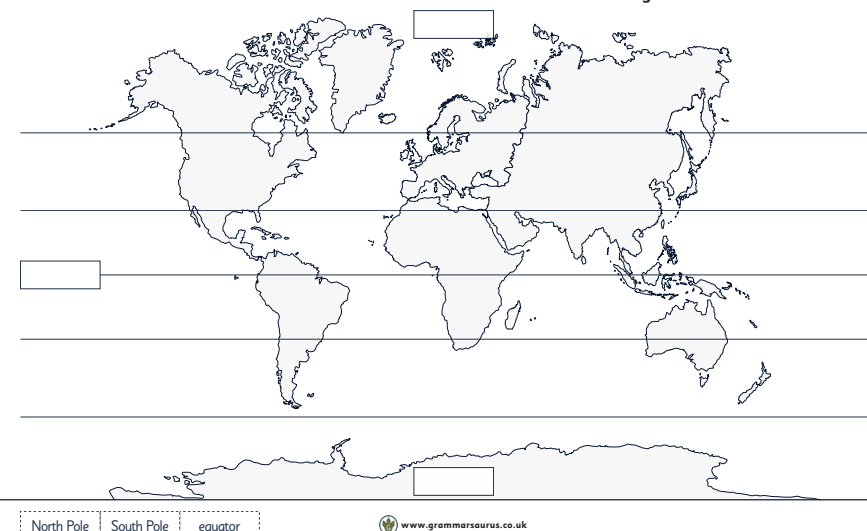
Can you **locate and label the equator**? Can you **locate and label the North and South Poles**? Use the knowledge you have gained to decide which areas have a **hot climate** and which have a **cold climate**. Colour the areas with a cold climate **blue**. Colour the hottest areas in **orange**.



How do the equator and the poles affect the climate across the world?

Key Geographical Skills: Physical Geography
 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**.



Word Bank

North Pole

South Pole

equator



www.grammarsaurus.co.uk



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