

# Welcome to Geography at SPS!

Hello Year 6 (Soon to be Year 7!)

We are really sorry we didn't get to meet you before the summer holidays at an 'Induction Day'. However, we didn't want you to miss out! The activities we have for you are just a tiny sneak-peek of the kind of things we think about in Geography in Year 7 (as a bit of a head start!) Please don't feel you need to attempt all of the activities (although you can if you want!)

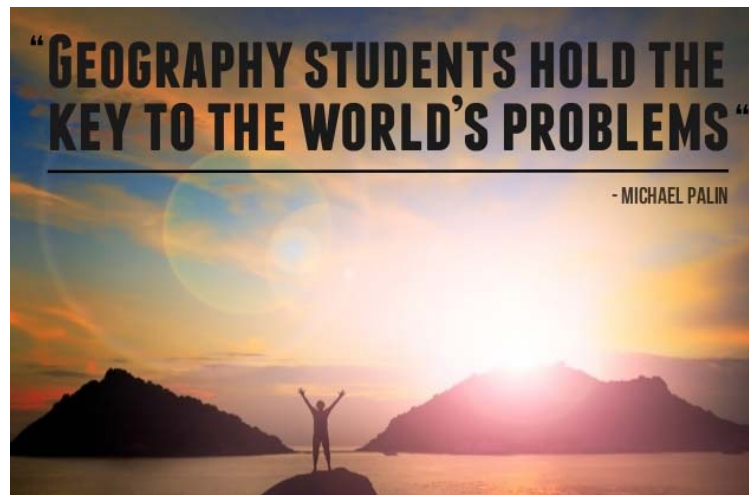
If you do complete any of these tasks, please bring them with you to your first Geography lesson to hand to your class teacher (Make sure your name and tutor group are on these) we may have a special certificate for you in return!

If you don't fancy a task that involves writing, you could try watching one of the documentaries we think show Geography at its best! (You will need access to BBC iPlayer for these!)


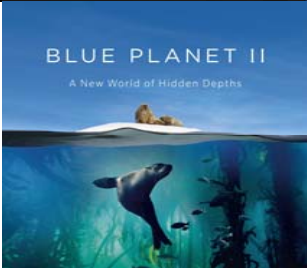

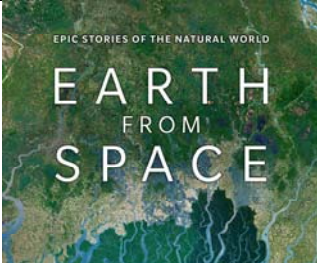
We look forwards to seeing you soon

The Geography Department

(Miss Atkinson, Mr Keil, Miss O'Neill, Miss Portsmouth, Mr Richardson and Mrs Wimpenny)



**Suggested Documentaries (There are lots more, but these are a few of our favourite series!)**

Planet Earth II	 The poster for Planet Earth II features a dark, starry sky with a bright, glowing celestial body on the right side. The text "PLANET EARTH II" is centered in white.	<a href="https://www.bbc.co.uk/programmes/p02544td">https://www.bbc.co.uk/programmes/p02544td</a>
Blue Planet II	 The poster for Blue Planet II shows a blue whale swimming underwater. The text "BLUE PLANET II" is at the top, and "A New World of Hidden Depths" is below it.	<a href="https://www.bbc.co.uk/programmes/p04tjbtX">https://www.bbc.co.uk/programmes/p04tjbtX</a>
Seven Worlds, One Planet	 The poster for Seven Worlds, One Planet features a rainbow arching over a landscape. The text "SEVEN WORLDS ONE PLANET" is in the center, with "NATURAL WONDERS FROM EVERY CONTINENT" below it.	<a href="https://www.bbc.co.uk/iplayer/episodes/p07dzjwl/seven-worlds-one-planet">https://www.bbc.co.uk/iplayer/episodes/p07dzjwl/seven-worlds-one-planet</a>
Earth from Space	 The poster for Earth from Space shows a satellite view of Earth. The text "EARTH FROM SPACE" is in the center, with "EPIC STORIES OF THE NATURAL WORLD" above it.	<a href="https://www.bbc.co.uk/iplayer/episode/p072n8m0/earth-from-space-series-1-4-changing-planet">https://www.bbc.co.uk/iplayer/episode/p072n8m0/earth-from-space-series-1-4-changing-planet</a>

# Geography in the News

Go on to a good news website (like Newsround or BBC News) and find a news story that interests you. Read through it making sure you know what the story is about.

Write the headline of the story here:

Draw a picture to summarise what this news story was about. You may use up to 10 words within your picture...

Who (individual or group) might be most affected by this and why? Note down at least 1 idea below...

Which type(s) of Geography do you feel this news story links to best? Why?

## HELP BOX → What are the 3 types of Geography?

- **Physical Geography** = anything to do with the things that would still exist/happen even if humans were not on Earth
- **Human Geography** = anything to do with people – what we do / what we have created
- **Environmental Geography** = anything to do with the quality of (*i.e. how good or bad*) the land, water and air

In your opinion, how might this news story link to Geography?

# The 3 types of Geography

Geography is about the world around us, from its features to the living things that we find on Planet Earth. Because this involves so many things, people normally group 'geography' in 3 main ways:

- **Physical Geography** = anything to do with the things that would still exist/happen even if humans were not on Earth
- **Human Geography** = anything to do with people - what we do / what we have created
- **Environmental Geography** = anything to do with the quality of (*i.e. how good or bad*) the land, water and air

Your task: Can you put the words in the blue box into the table below it to show how you think people might describe each of these?

Fancy an extra challenge - what type of geography do you think you might enjoy most at SPS?  
Why?

RIVERS	POVERTY	WEATHER	RECYCLING
TOURISM	COASTS	MOUNTAINS	TRANSPORT
RAINFORESTS	DESERTS	CLIMATE CHANGE	TOWNS & CITIES
POPULATION	MAPS	EARTHQUAKES	CRIME
MIGRATION	TORNADOES	VOLCANOES	LITTER
HEALTH	SOILS	GLACIERS	TOURISM

[illegible]

# How have plants adapted to the climate of the tropical rainforest?

Plants or 'flora' (as we say in geography) have to adapt (change) to suit the climate that they grow in.

For example, if the climate is hot with little rainfall, flora would need to be able to collect and store as much water as possible to help it to survive.

So what do we mean by the term 'climate'?

Climate is the temperature and amount of rainfall expected for a place at a certain time of the year. For example, in Rayleigh in December you would expect the climate to be cold with high amounts of rainfall.

**What do you think the climate of a tropical rainforest might be like?** Label your ideas about the likely temperature(s) and rainfall amount(s) around the image below:



**Extension:** Can you explain why you think the tropical rainforest has this type of climate?  
What evidence (within the image or from your own knowledge) gave you those ideas?



## So how do some plants adapt to the tropical rainforest?

Below is an image and text saying how an orchid has adapted to the climate (and other conditions) of the tropical rainforest. As you read through the text, highlight:

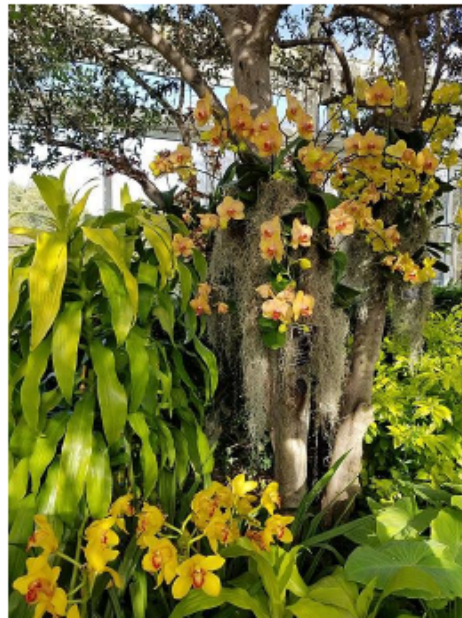
1. **Description of the adaptation** - i.e. where it says what the flora has it has
2. **Reasons for adaptations** - i.e. where there is explanation of why the flora has this adaptation and/or how it might help the flora to survive in the tropical rainforest climate.

Key:

The adaptation

The reason for the adaptation


An orchid is an epiphyte, with aerial roots to climb up the trunks of other trees so that it can reach light in the canopy layer.



Roots have a large surface area to help with the absorption of water and nutrients.

The flowers can be brightly coloured and have a powerful scent which helps to attract insects to spread their pollen.

The leaves are waxy to help prevent water loss when stored in their leaves.

In your opinion, which adaptation of the orchid do you think is the most useful to help it to survive in the tropical rainforest? Why?

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**In this box, design your own flora (plant) that is adapted to the tropical rainforest.** Please include labels around your image which both **describe** what adaptations you have included and **explain** your reasons for including that adaptation (i.e. why did you think the flora would need that adaptation to help it to survive?)

### A little extra support for your own design...

- ❖ If you want to explore more about the **climate and conditions of the tropical rainforest**, please watch the following video called 'rainforests – Geography – Ecosystems and Biomes' which has been produced by BBC Teach: <https://www.youtube.com/watch?v=UlbplCn8-zs>
- ❖ If you want to explore more **ways that different flora (plants) adapt to the climate and other conditions of the tropical rainforest**, there is a great video that the Eden Project in Cornwall have made. The link to this video is: <https://www.youtube.com/watch?v=C1lb0-BIBKU>

**You can also use the box of words below to help think through adaptations you may wish to include in your flora design:**

Tall	Short	Large leaves	Small Leaves	Colourful petals
Buttress roots	Drip tips	Epiphyte	Waxy Leaves	Camouflage
Shallow roots	Enzymes to digest insects	Smooth, waxy walls in plant	Drooping leaves	Attracts insects with nectar

### Flora design checklist

**Use the points below to check your flora design...**

- ⇒ Have you included at least one adaptation to help your flora survive in the warm temperatures of the tropical rainforest?
- ⇒ Have you included at least one adaptation to your help flora cope with the high levels of rainfall that tropical rainforests have?
- ⇒ Have you thought about whether this flora will survive on the forest floor (where it is shady), or be taller (and have lots of sunshine)?
- ⇒ Have you thought about how your flora will get the nutrients (food) it needs to grow? I.e. will this come from the soil, other plants or even insects?
- ⇒ Have you added labels to describe (say what) the adaptations you have included are?
- ⇒ Have you tried to explain (give reasons) for each adaptation that you have included? I.e. why would this feature of your flora be useful to help it to survive in the tropical rainforest? *(There should be an attempt to explain in each label).*
- ⇒ Have you included key terms where possible? (See box of words for ideas).



# Improving my map skills – Grid References

Go to one of the website link below on how to read grid-references.

<https://www.ordnancesurvey.co.uk/mapzone/map-skills/grid-references/page-one>

OR watch the Youtube video (subtitles can be added)

[https://www.youtube.com/watch?v=c0du8v4EE\\_Y](https://www.youtube.com/watch?v=c0du8v4EE_Y)

Check your answers to this task below! How did you do?

Penguin = 07,08

Flower = 10,10

Frog = 08,11

Lobster = 11,07

Pigeon = 13,09

Once you are happy have a go at reading the 4-figure grid references in the image below

Frog: .....

Flower: .....

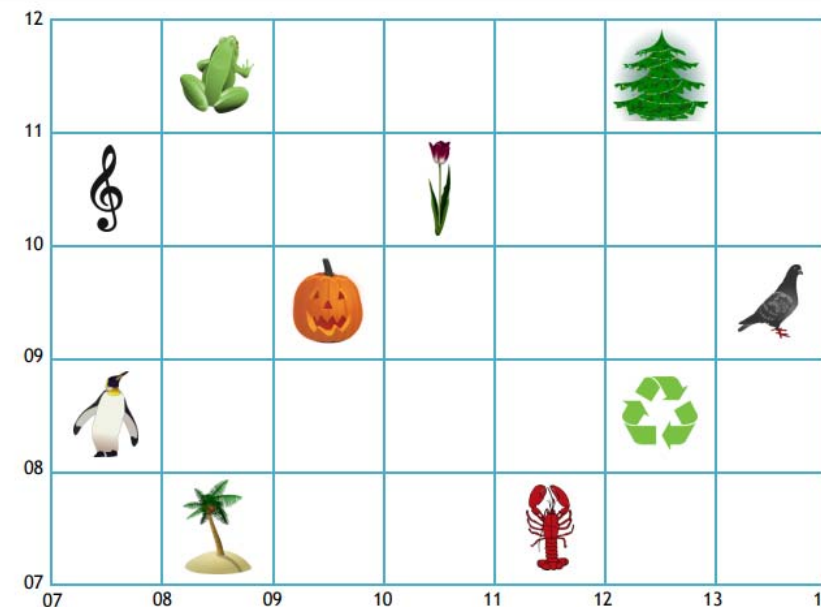
Penguin: .....

Pigeon: .....

Lobster: .....

If you want to challenge yourself further, watch the Youtube video on how to read a 6-figure grid reference [https://www.youtube.com/watch?v=FXuo\\_ocVMVU](https://www.youtube.com/watch?v=FXuo_ocVMVU)

Why might being able to read a 6 figure grid reference be really useful according to Steve Backshall?



# My favourite place

1) Create a list of all of the places you really like. These could be across the other side of the world or in your local area (try not to use your house/garden!)

2) Write the name of your most favourite place here...

Draw a picture, add a photo or use the internet to find an image of your favourite place. You could even find a map to show where it is in the world! (If this doesn't all fit in this box, feel free to put this in the box on the next page!)

In no more than 100 words, tell me why this place is your favourite (i.e. is it good memories? The activities? The views?)

Which continent and country is your favourite place in? Did your journey there help in making this your favourite place? If so, why?

In your opinion, do you think all people have the same favourite place? Why? Why might other people have a different favourite place?

Extra space for pictures and maps!