Name: Class:



Year 7 Unit 1:



What do Geographers do?



Professionalism. Inclusion. Pedagogy. Curriculum.

Be professional. Be inclusive. Be a learner. Be knowledgeable.

Unit Overview: Introduction to Geography ENQUIRY: What do Geographers do?

Unit intention:					
Success criteria		√	X		
 I can find places in the Atlas on my own I can explain why Geography exists as a subjeted I can identify the different types of Geograph I can name the major lines of latitude and lond I can name 5 Geographical jobs I can explain why maps aren't always accurate 					
Unit summative and formative assessment d	etails:				
Baseline assessment Mid unit assessment					
Home Learning (What and how often):					
Set every lesson – review and practice skills					
Topic Sequence	Recommended reading:				
 Key global features Atlas skills Geography as a discipline Latitude and longitude Geographical careers OS map skills quiz books Places to visit: Greenwich – Prime Meridian					
Greenwich – Royal Observatory					
	British Museum – Ancient Gree	есе			

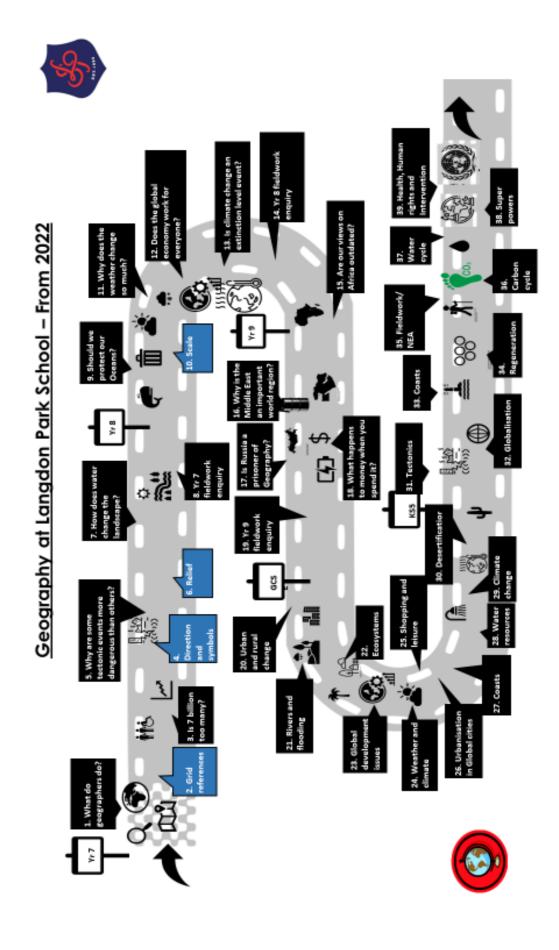


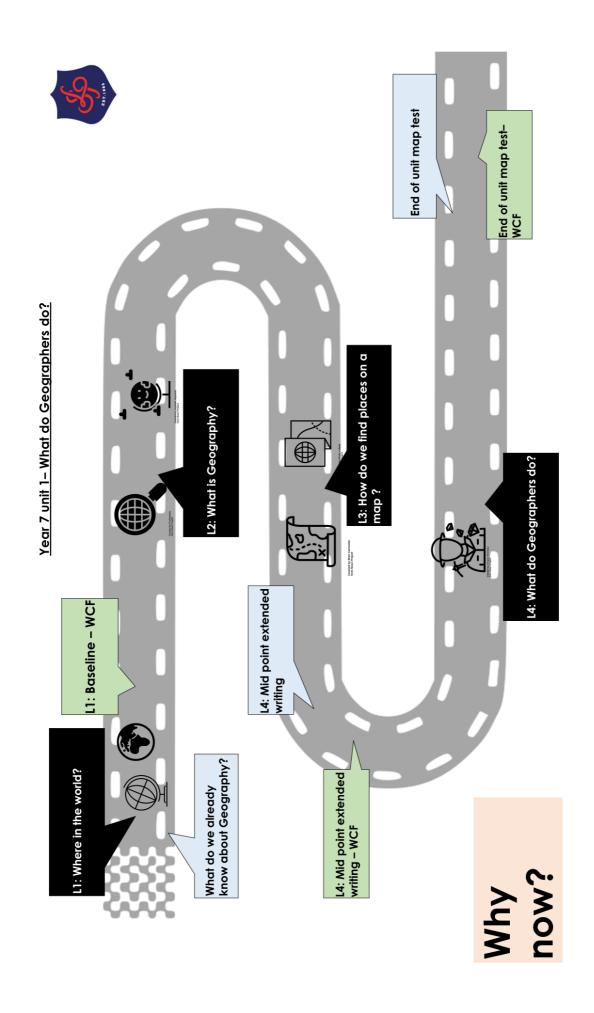
Professionalism. Inclusion. Pedagogy. Curriculum. Be professional. Be inclusive. Be a learner. Be knowledgeable._____

End of unit evaluation

Success criteria – Have you met them? Show your <u>evidence</u> in preparation for your assessment.
1.
2.
3.
4.
5 .
6.
How will you improve your work?

Year 7 (Term 1)							
LI	Extending	Mastering	Learning	How assessed	HW Check		
To learn to use an atlas to locate places independently	I can find places in the Atlas on my own	I can use a contents page and index	I can name the continents and oceans	Baseline assessment at start of lesson 1	A place I have visited sheet		
To understand what Geography is as a discipline	I can identify the different types of Geography	I can explain why Geography exists as a subject	I can define Geography		Geography crossword		
To understand how we locate places on a world map	I can use latitude and longitude to locate places	I can explain how lines of latitude are calculated	I can name the major lines of latitude and longitude	Mid-point essay	Spy catcher sheet		
To understand the different careers Geographers do	I can explain why maps aren't always accurate	I can tell the story of the early explorers	I can name 5 Geographical jobs	Throughout	Revise for maps skills test		





<u>Glossary</u>

Key word	Definition

Lesson 1: Where in the world?

Big Picture

L/M/E		I think I can	My teacher thinks I can
Learning	I can name the continents and oceans		
Mastering	I can use a contents page and index		
Extending	I can find places in the Atlas on my own		

Do now: Match the start and end of sentences

Africa is
Physical geography is
The capital of Spain is
China is
Human geography is
Global means
London is

a country.
a city.
about rivers, coasts, and volcanoes.
about farming, settlement, and population.
a continent.
Madrid.
relating to the whole world.

Starter: Match the countries to the continents

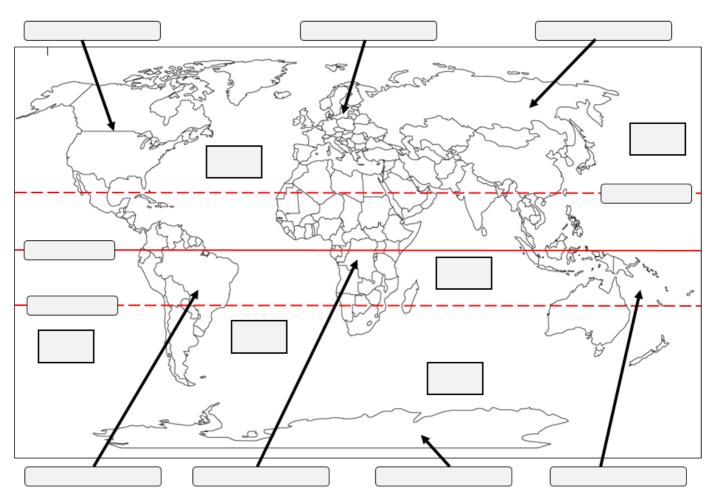
The United Kingdom
Afghanistan
The United States of
America
Australia
Brazil
South Africa

Asia	
Africa	
Oceania	
Europe	
North America	
South America	

A globe is	
A map is	
An Atlas is	

A contine	ent is	 	 	 	 	
A countr	y is	 	 	 	 	

Complete the map



Continents

- North America
- South America
- Africa
- Europe
- Asia
- Oceania
- Antarctica

Oceans

- North Atlantic
- South Atlantic
- North Pacific
- South Pacific
- Indian
- Southern

Lines of Latitude

- Tropic of Cancer
- Equator
- Tropic of Capricorn

Use your world map to complete the sentences	
The ocean to the west of the Europe is the	
The ocean to the east of Asia is the	
The continent to the west of the South Atlantic Ocean is	
Africa is surrounded by 4 oceans, these are: the	, the
The only oceans north of the Tropic of Cancer are the	and the
The passes through the continents of So and Oceania	outh America,
Only one continent is crossed by all three important lines of latitu	ude, this continent is
Using an Atlas	
Contents page:	
1) Open the Atlas at the contents page. What does this page to	
2) There are 2 new keywords to describe most of the different type Can you find them?	oes of maps in the Atlas.
3) What does "Political" mean? And what about "Relief"?	
4) What page is the Political map of Europe on?	
5) What page is Relief map of Africa on?	
6) Where would you find information on Natural Hazards?	
7) What do you think the map on Page 80 would show you?	
Index:	
1) What does the first column of numbers tell you?	
2) And what does the next column tell you?	
3) If you wanted to find information on "Athens" what page wou	
4) What page number and grid code would you need to find fo	r "Mablethorpe"?
5) The last 2 columns tell you the longitude and latitude of a place those magn?	ce. What do you think

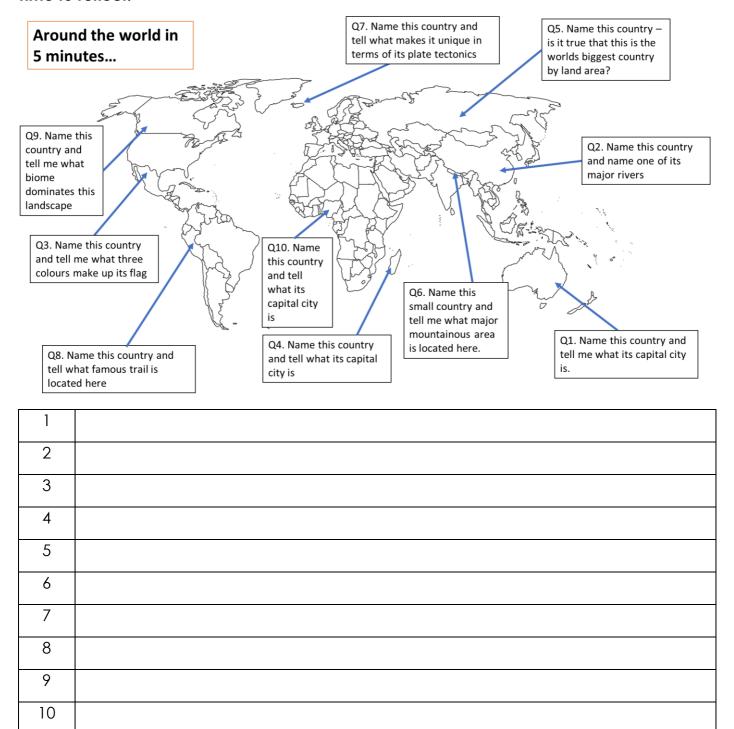
Maps:			
1) What is the scale	used on the m	nap on pages 10 and 11?	
2) Which country d	oes it show?		· • •
3) What is the name	e of the 2 stretc	ches of water on this map?	
			••
4) What type of mo	p is on page 1	9?	••
5) What does it sho	ν. ΜŠ		• •
6) Look at the pie of to visit the UK?	chart on page 3	33. What does it tell us about where people came fror	n
			••
			···
// Page 35 snows c		of Europe. How many capital cities are there in Europe	' ز
		and size in Africa?	
		ain range in South America?	
10)Pages 122 and	123 show the di	ifferent climates around the world. Can you name a	
_	_	give you lots of information about different countries. Ition from these pages.	
Country	Total Population	Description of flag	
Belgium			
Denmark			
Egypt			
Italy			
Jamaica			
Madagascar			
Rwanda			
Singapore			
Turkey			
United Kinadom			

at the back of the atlas to help you.
What is the name of the river that runs through London?
2. Budapest is the capital of which country?
3. Cairo is the capital of which country?
4. Algeria, Libya, Sudan, Tanzania, Congo, and Ghana are all found on which continent?
5. Bangkok is the capital of which country?
6. Which city is the capital of Italy?
7. Sweden, Romania, Slovakia, and Ukraine are all countries in which continent?
8. Which city is the capital of Norway?
9. What is the name of the two islands in the South Atlantic Ocean off the coast of South America?
10. What is the name of the large country in Europe which borders both the Black Sea and the Mediterranean Sea?
11. What is the name given to the volcanic islands in the North Pacific Ocean that are a part of the USA?
12. What is the name given to the imaginary line around the middle of the world?
13. Which country covers the most time zones?
14. Atlantic, Pacific, Southern and Indian are all types of what?
15. Kiev is the capital city of which country?
16. What is the name of the river that runs through 10 countries in Northern Africa including Sudan, Ethiopia, and Egypt? The
17. The world is made up of many different ecosystems and environments. What is the name given to the common ecosystem of North Africa that is sand and stones with very little vegetation (plants)?
18. What is the name given to the highest mountain in the Himalayas? Mt
19. Which continent has the highest population (number of people)?
20. On a climate graph we show record the average of two measurements of weather. One is temperature, what is the other?
21. In addition to the equator there are two additional lines of latitude marked on world maps, what are they called?

Now use your knowledge of the Atlas to find the answers to these questions:

The first letter of each answer creates a phrase. Write each letter out below, can you work out what the phrase is?

Time to reflect:



Lesson 2: What is Geography?

Big Picture

L/M/E		I think I	My teacher
		can	thinks I can
Learning	I can define Geography		
Mastering	I can explain why Geography exists as a subject		
Extending	I can identify the different types of Geography		

Do now:
Geography is the study of thewe in. Geographers study processes
and landforms, such as, rivers, and oceans. Geographers also study
patterns of activity and the links betweenand the environment.
people world live natural deserts mountains human
Starter:
Name 2 countries in each of these continents:
Africa
Asia
Europe
North America
Oceania
South America
Why did I not include Antarctica?

The story of Eratosthenes and the word Geography

The word Geography was first written down in an empire called Ancient Greece. The man in Ancient Greece who first wrote it down was called Eratosthenes. We don't know exactly when Eratosthenes first wrote down the word Geography. We estimate it was 220 B.C. That would mean the word Geography was written down for the first time over 2239 years ago.

Eratosthenes lived in the city of Alexandria in the country of Egypt. Egypt was part of the empire of Ancient Greece in 220 B.C. Alexandria was a coastal city in the North of Egypt next to the Mediterranean Sea. The city of Alexandria was founded by a Greek, Alexander the Great; he named the city after himself. The city of Alexandria was home to the Great Library. The Great Library was home to knowledge and information from across the Greek Empire. Eratosthenes worked in the Great Library as the Chief Librarian. Like many of you here, Eratosthenes wanted to understand the world around him. Just like you, Eratosthenes studied many different subjects. In Ancient Greece, these subjects were called disciplines.

Eratosthenes studied Mathematics, Astronomy, Poetry, History, and Philosophy. Because he studied these different disciplines, Eratosthenes began to see the links between the disciplines and how they were connected. Thinking like this is called interdisciplinary. Eratosthenes made a new word called Geography. In Ancient Greek, Geo means 'the Earth' and 'graphy' means 'to write'. Geography means 'to write about the Earth'. We still 'write about the Earth' in Geography today. It is still an interdisciplinary way of thinking. Students, like you, have studied Geography in schools since Eratosthenes first wrote it down in the Great Library of Alexandria.

Eratosthenes wrote three books about Geography. In his third book, Eratosthenes created a map of all the places mentioned in the Great Library. Sadly, all the copies that were made have since been lost.

• Draw a neat line, using a ruler, to show the location of these on the map of the Mediterranean below.



Mediterranean



Egypt





Eratosthenes



The Great Library

Answer the

questions below

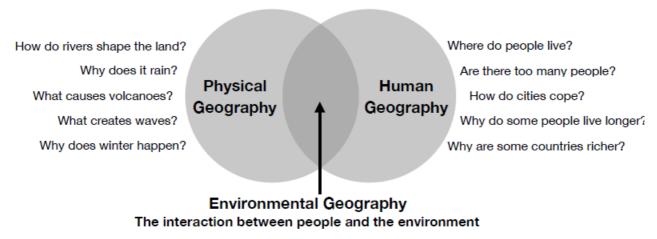
1. Which empire was the word Geography first written down in?	
2. What was the name of the man that first wrote down the word Geography?	
3. What was the word that Eratosthenes first wrote down?	
4. In which year do we estimate the word Geography was first written down?	
5. Which city did Eratosthenes live in?	
6. What does the word Geo mean?	
7. What does the word graphy mean?	
8. What does the word Geography mean?	
9. Which sea was Alexandria next to?	

10. What were subjects called in Ancient Greece?	
11. What job did Eratosthenes have in the Great Library?	
12. What is it called when you study many disciplines and see the connections between them?	
13. When the word Geography was first written down; what empire was Egypt in?	
14. Which city was home to the Great Library?	
15. Where did Eratosthenes work?	
16. Who was the first person to write down the word Geography?	
17. How many books of Geography did Eratosthenes write?	
18. Are there any copies for us to read today?	

The meaning of the word Geography today

The way we use the word Geography has changed since Eratosthenes first wrote it down.

Today, we say that there are two main *branches* of Geography. The two main branches are Physical Geography and Human Geography. The two main branches of Physical and Human Geography ask different types of questions. However, some of the questions that Geographers ask don't belong to just one branch of Geography, they belong to both:



Why are some people more vulnerable to Earthquakes?

We still use a lot of the same words in Geography that Eratosthenes would have used in Ancient Greece. Like the word Geography, they are made of a prefix, like *Geo*, and a suffix, like *graphy*. Use the meanings opposite to match up the words below with a ruler.

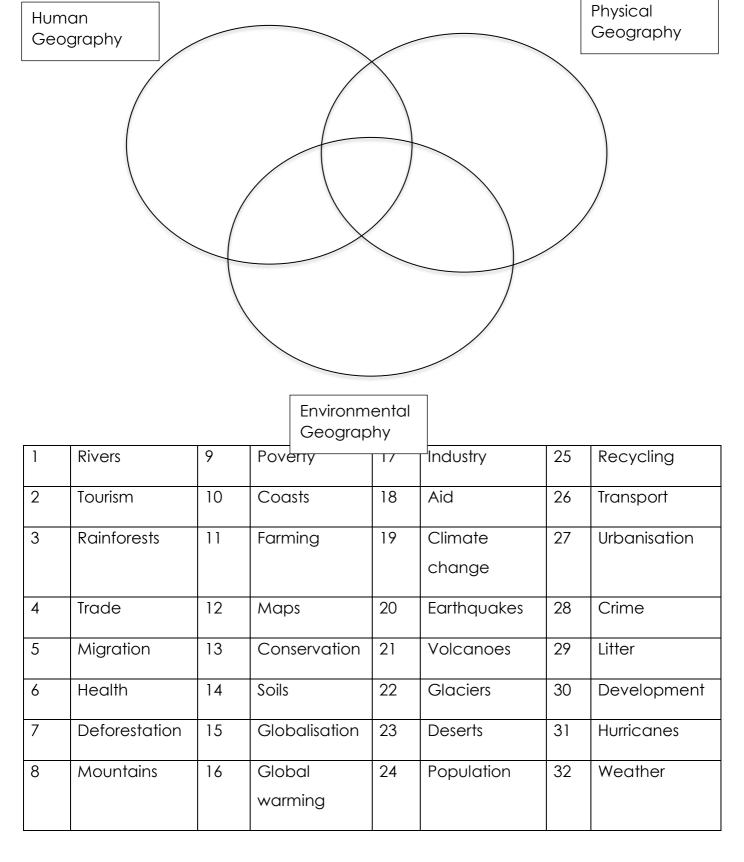
Geo = Earth	Graphy = To write
Hydro = Water	Metry = To Measure
Carte = Paper	Logy = To Study
Demos = People	Morph = Shape

Geology	Studying the Earth's Shape	Checking the quality of water in a lake that the
		residents of a city drink
Hydrology	Writing it down on Paper	Reporting on how many children live in an area so the right number of
Hydrometry	Measuring the Earth	schools are built Designing a map that shows tourists where the rides are in a theme park
Cartography	Studying the Earth	Studying the shape of the coastline and explaining why it's like that
Demography	Measuring water	Although it started as a type of Geography, it's now the measuring of all shapes, and it a type of Mathematics.
Geomorphology	Describing the people	Measuring the volume of water in a river after rainfall Studying the type of
Geometry	Studying the water	rocks under the surface to know where to drill for oil
	f Librarian in the city of Alexandria m create the word Geography	
•••••	-	
		•••••
		•••••
	ens and Alexandria, two importantea between them would have be	t cities in the Greek
•••••		
•••••		
•••••		•••••
•••••		•••••
•••••		••••••
•••••		•••••
What are the different part	ts of Geography?	

What are the different parts of Geography? Human Geography – concerned with people

Physical Geography – nature and the effect it has on people and/or the environment

Environmental Geography – how people can harm or protect the environment Sort the Geography topics into the Venn diagram



Write a definition of the keyword	Create a question where the	keyword is the answer
Use the keyword correctly in a sentence		
	Koyword	What other words can be
	Keyword	linked to that keyword?
Draw an image, picture or symbol	Physical	
to illustrate the keyword	geography	
	Why is the keyword important this keyword be included in?	? What other units/topics can

Use the keyword correctly in a sentence	Create a question where the	keyword is the answer
Draw an image, picture or symbol to illustrate the keyword	Keyword Human geography	What other words can be linked to that keyword?
	Why is the keyword important this keyword be included in?	t? What other units/topics can

Time to reflect:

Which are human and which are physical?

1	8	15	
2	9	16	
3	10	17	
4	11	18	
5	12	19	
6	13	20	
7	14	21	

Lesson 3: What are lines of latitude and longitude?

Big Picture

		I think I can	My teacher thinks I can
Learning	I can name the major lines of latitude and longitude		
Mastering	I can explain how lines of latitude are calculated		
Extending	I can use latitude and longitude to locate places		
Do now:			
1			
2			
3			
<u> </u>			
4			
5			
6			
7			
_			
Starter:			
	es of latitude:		
Name 3 lin	es of latitude:		
Name 3 lin			
Name 3 lin 1 2			
Name 3 lin 1 2 3			
1 2 3			

The Prime Meridian is

The Tropic of Cancer is

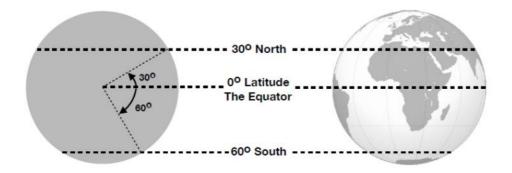
The Tropic of Capricorn is

The story of why Latitude is measured in degrees

Eratosthenes wanted to make a map that was as accurate as possible. To do this he invented lines of latitude. Eratosthenes invented lines of latitude so that anyone could use the map to see how far North or South a place was on the Earth's surface.

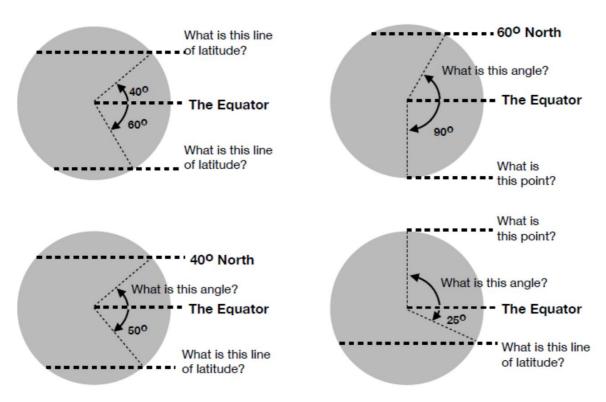
Lines of latitude run horizontally across the Earth. The line that runs horizontally around the surface of the Earth in the middle is called the equator. It is called the equator because it separates the surface of the Earth into two equal halves.

The point at the very top of the surface of the earth is called the North Pole. The point at the very bottom of the surface of the Earth is called the South Pole. Every other line of latitude is measured as being either North or South of the equator.



The diagram above show how the unit of measurement for Latitude is degrees. This is because of the angle measured from the centre of the Earth. The line of latitude runs horizontally around the Earth's surface at the place where the angle from the centre of the Earth reaches the surface.

The angle from the centre of the Earth has a range from 0° - 90°. The equator is at 0°. The North Pole is 90° North and the South Poe is 90° South.



21. What is the name of the line that runs horizontally around the surface of the Earth in the middle?	
22. What is the unit of measurement for lines of latitude?	
23. What is the name of the place 90° North?	
24. Which is further from the Equator, 20 ^o N or 40 ^o S?	
25. Do lines of latitude run horizontally or vertically around the Earth?	
26. What is the name of the point 90° South?	
27. What is angle from the centre of the Earth at the Equator?	
28. What is angle from the centre of the Earth at 20 ^o N?	

29. What is the name of the lines that separates the surface of the Earth into two equal halves?	
30. What is the range of the angles of latitude?	
31. Which is near the South Pole, 20 ^o N or 40 ^o S?	
32. Which line of latitude is longer, 20 ^o N or 40 ^o S?	
33. Can we see lines of latitude when we're standing on the surface of the Earth?	
34. Can we see lines of latitude from space?	
35. Which line of latitude is longer, the Equator or 20 ^O N?	
36. Which line of latitude is shorter, 60 ^o N or 20 ^o N?	

The story of the Tropics of Cancer and Capricorn

The sun is directly above the Tropic of Cancer during the summer solstice. The summer solstice is the day of the year with the most hours of sunlight. This is during the month of June in the Northern Hemisphere. This line is at 23.5°N

In Ancient Greece, people could see the stars in the night sky more clearly than they can now. We cannot see the stars as well because of light pollution. This is the effect of all the lights in the cities on Earth.

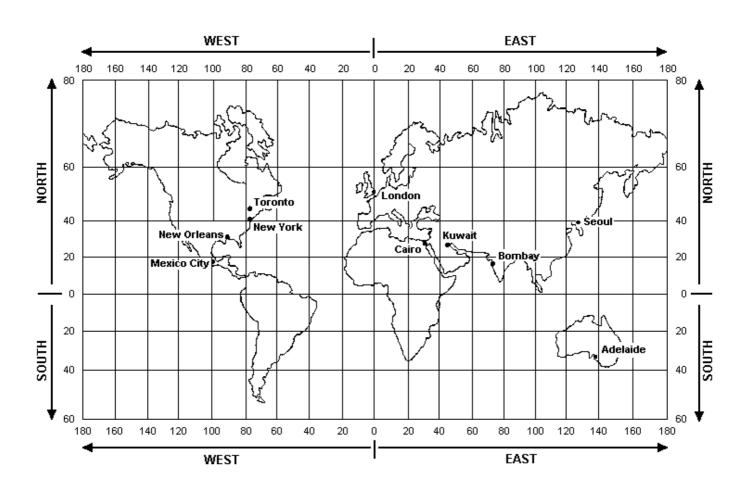
The stars in the sky were so bright in Ancient Greece that the Ancient Greeks believed they could see patterns and pictures in the stars, these patterns and pictures were called constellations. Theses constellations are still there but we cannot see them very often. The constellations were given names. This helped people in Ancient Greece to know which direction they were travelling at night time.

Around 200 BC, when Eratosthenes would have been alive and working as the Chief Librarian in Alexandria, the Tropic of Cancer was named. During the summer solstice the constellation Cancer was directly overhead of the Tropic of Cancer.

In Greek mythology, Cancer is identified with the crab that appeared while Hercules fought the many-headed Hydra. Hercules slew the crab after it bit him in the foot. Afterwards, the goddess Hera, an enemy of Heracles, placed the crab among the stars

155. Which Tropic is in the Northern Hemisphere?	
156. Which Tropic is in the Southern Hemisphere?	
157. Which Tropic was the city of Syene closest to?	
158. Which constellation is the Tropic of Cancer named after?	
159. In which solstice is the sun directly overhead of the Tropic of Cancer?	
160. Which constellation is the Tropic of Capricorn named after?	

161. In which solstice is the sun directly overhead of the Tropic of Capricorn?	
162. Are the Tropics the same distance from the Equator?	
163. Which has a longer circumference, the Tropic of Cancer or the Equator?	
164. How many degrees North is the Tropic of Cancer?	
165. How many degrees South is the Tropic of Capricorn?	
166. What degrees is the Equator?	



City	Latitude	Longitude
New Orleans		
	34°S	18°E
Cairo		
Seoul		
	12°S	77°W
London		
	60°N	11°E
Toronto		
New York		
	23°S	43°W
Adelaide		
	56°N	37°E
Kuwait		
	49°N	123°W
Mexico City		
Mumbai		

Answer these questions: What is the most important line of Latitude? What is the latitude of the Tropic of Cancer? Which of the Tropics in located in the Northern Hemisphere? What latitudes is the United Kingdom located between? What longitudes is Africa located between?

.....

Time to reflect:

Lesson 4: What do Geographers do?

Big Picture

L/M/E		I think I	My teacher
		can	thinks I can
Learning	I can name 5 Geographical jobs		
Mastering	I can tell the story of the early explorers		
Extending	I can explain why maps aren't always accurate		

Do Now:

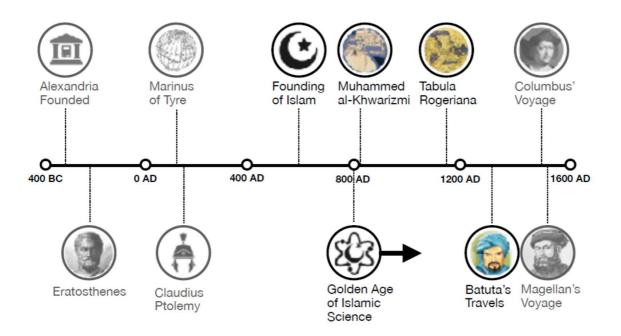
-
Anthropologist
Botanist
Climatologist
Demographer
Economist
Environmentalist
Geologist
Geomorphologist
Hydrologist
Meteorologist
Palaeontologist
Scientist
Seismologist
Volcanologist

Studies
Rocks and structure of the earth
Earthquakes
Plants
Changes in the wealth and poverty of people and places
Animals
Human populations
Weather
Water and ice processes and interactions
Human behaviour and migrations of the past
Interactions and processes
Volcanoes
History of life on earth
Interactions between people and the planet
Changes in the physical landscape of the earth

Changes in the climate of the earth

Starter:

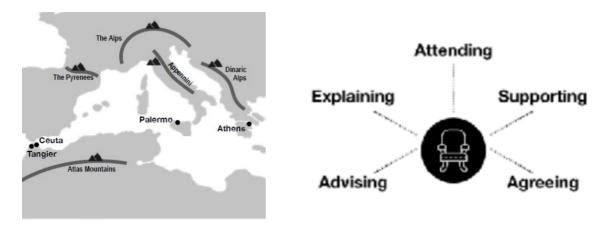
What do these people have in common?



Islamic explorers

By the 12th Century, Europe had entered the Dark Ages and almost all the knowledge of Geography and Cartography had been lost. To the South and East, the Islamic Empire had entered its Golden Age of Science and the discipline of Geography was still being studied. The explorers of the Islamic Empires increased our knowledge of regions and cities across the world.

Muhammed al-Idrisi was a Muslim and a North African. He was born in the city of Cauta. Cauta is in the modern country of Morocco on the Mediterranean Sea. Muhammed al-Idrisi was very interested in different places. Whilst in his twenties he travelled to many parts of Europe including Portugal, the Pyrenees and even as far north as the English city of York. He finished his travels by visiting the city of Palermo on the Island of Sicily. Mohammed al-Idrisi met the King of Sicily, King Roger II and was invited to become a guest at King Roger II's court. He had a number of responsibilities while there



Muhammed al-Idrisi was a Geographer and was very interested in the study of Cartography. He had the opportunity to study the maps of Eratosthenes. Whilst there were no copies in Europe during the Dark Ages, there were copies in the Islamic Empire. King Roger II of Sicily gave Muhammed al-Idrisi the task of creating the most accurate map of the world that had ever been made. King Roger II was also a keen Geographer and Cartographer. Muhammed al-Idrisi based his map on the same rules of longitude and latitude that Eratosthenes had developed more than 1,000 years before him.

Muhammed al-Idrisi worked on the map for 15 years. He used information gathered by Muhammed al-Khwarizmi, who was the Chief Librarian of the House of Wisdom in Baghdad.. Muhammed al-Khwarizmi had a significant impact on Geography and Mathematics. Like Eratosthenes he studies many disciplines. He is credited with discovering both algebra and algorithms.

The map made by Muhammed al-Idrisi was made as a gift for King Roger II and was named the Tabula Rogeriana, which translates as 'The Map of Roger'. In Arabic the map is called the Nuzhat al-Mushtãq fi'khtirãq al-ãfãq which translates as 'The book of pleasant journeys into faraway lands'

Complete the map:

Label the cities and regions :

Central Asia – 39,06

China - 43,05

Middle East – 38,04

South Asia – 40,04

Sub-Saharan Africa – 36,03 South-east Asia 43,02

Cilies:

Alexandria – 36,05

Baghdad – 37,05 Athens – 36,05

Beijing – 43,06

Delhi – 40,05

London - 34,07

Mecca - 37,04

Rome - 35,06

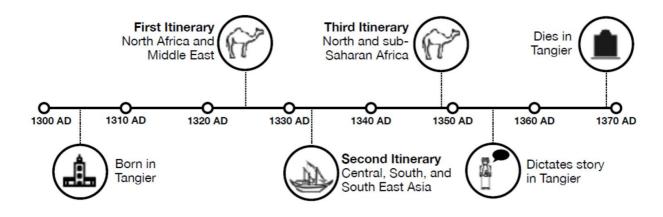
Tangier – 33,05

Timbuktu – 33,03



Like Muhammed al-Idrisi, Ibn Bauta was a Muslim and a North African from the modern country of Morocco. Ibn Battuta was an explorer and a scholar, for over 30 years Ibn Battuta travelled most of the Islamic world and many non-Islamic lands, including Central Asia, South-east Asia, South Asia, and China.

Near the end of his life, Ibn Battuta dictated the story of his life. The book is called Tuhfat an-Nuzzār fi Gharā ib al-Amsār wa Ajā'ib al-Asfār in Arabic which translates to 'A gift to those who contemplate the wonders of cities and the marvels of travelling'. At the time of his death, Ibn Battuta was likely the most well-travelled person in History. He would remain so for another 200 years until Ferdinand Magellan sailed all the way round the Earth, completing the first circumnavigation.

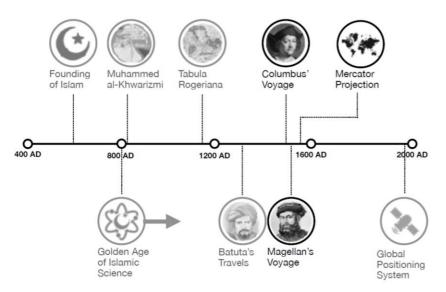


Match the heads and tails

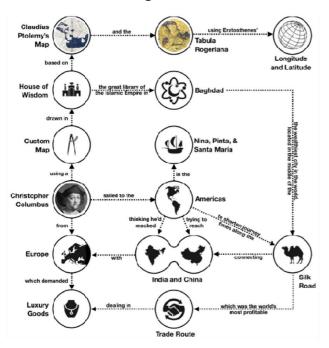
Scholar	<u> </u>	She told him what to write
Explorer	•	She sailed all the way around the Earth
Dictated		They went somewhere no-one had been before
Circumnavigation	0	He read and studied harder than anyone

Which religion did	Who was the	Which modern
Muhammed al-	King of Sicily	country were
Idrisi and Ibn	when	Mohammed al-
Battuta follow?	Muhammed	Idrisi and Ibn
	al-Idrisi lived	Battuta born in?
	in Palermo?	
Which region are	How did Ibn	What is a
Mohammed al-	Battuta write	circumnavigation?
Idrisi and Ibn	his story?	
Battuta from?		
What does it mean	What is a	What does the
when something is	scholar?	word explorer
dictated?		mean?

Geographers mapped the world



Columbus and Magellan





Which continent was Christopher Columbus from?	What were the names of the three boats that made the voyage?	
Which continent did Christopher Columbus sail to?	Christopher Columbus had a custom made map, where was it drawn?	
Which country did Christopher Columbus think he'd sailed to?	Which trade route was Christopher Columbus attempting to shorten?	
Which country was Christopher Columbus trying to sail to?	Which places did this trade connect?	

There had been peace across the Middle east, Central Asia, Southern Asia, and South-east Asia for hundreds of years when Columbus set sail. This peace made it possible for people from across Asia to trade with each other.

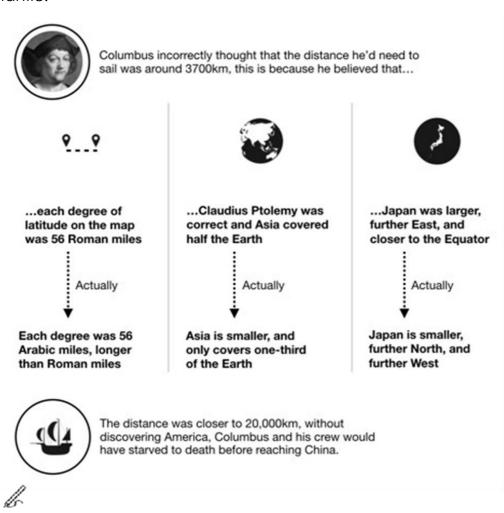
Silk from China and spices from India were sold to wealthy families in Europe. These trade routes connected people from across the world.

These trade routes were known as the Silk Road because traders bought Silk in China and transported it all the way to Europe for sale.



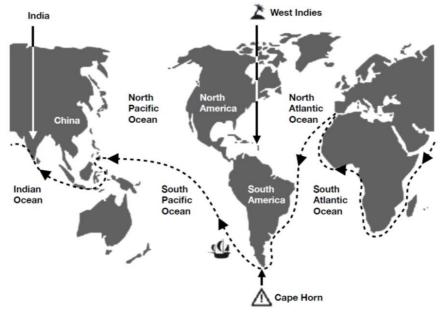
Trading along the Silk Road made many people very rich. Every city in the middle of a trade route becomes wealthier. The city of Baghdad was in the middle of the Silk Road and the richest city in the world.

The journey from China to Europe took two years along the Silk Roads. Christopher Columbus believed that it would be quicker to sail from Europe to China across the Atlantic.



What was the name of the trade route connecting Europe to China and India?	How far did Columbus think he had to sail?	
How long did it take people to travel along the trade route?	How far did Columbus actually have to sail?	
What was the name of the city in the middle of the trade route?	Why wouldn't Columbus have survived sailing to China?	
Why was Columbus trying to sail to China?		

After Columbus returned, many more sailors set out to voyage to the New World. Columbus spent the remainder of his life arguing that he'd reached India. He was wrong, but we can still see the effect of his misunderstandings today. Columbus referred to the people he'd met as Indians, we still use this term to refer to the native people of North America today. Columbus named the islands he sailed to the 'West Indies' because he'd sailed west and thought he'd arrived in India. We still call these islands the West Indies today.



A Spanish Cartographer called Amerigo Vespucci argued with Columbus. He believed that the islands of the West Indies were part of a new separate and unexplored land. He named it America.

Ferdinand Magellan was the first person to sail to India by sea. His voyage was long and hard. Magellan was the first person to sail around the dangerous Cape Horn. This nearly destroyed the ship and killed everyone on board. When Magellan entered the calm ocean on the other side he named it the Pacifico, which means 'peaceful'. We still call it the Pacific Ocean today

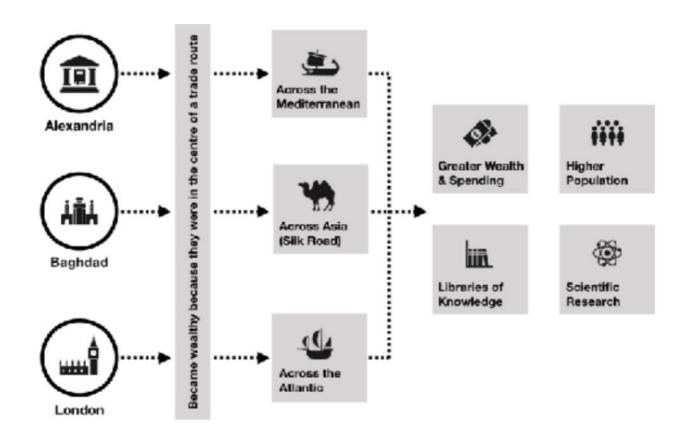
Transatlantic
Cartography
Crossing
Enlightenment
Wealthier
Elliptical
Distorted

I love maps. I want to make them when I'm older

Slowly, we had more and more money
I travelled from one side of the Atlantic
Ocean to the other

It's shaped like a rugby ball
The shape and appearance is all wrong
We know so much that we didn't know before

Getting there means we'll have to go over the mountains



Why maps became more accurate

The discovery of the New World led to improvements in cartography. These made it safer and more comfortable to sail across the Atlantic Ocean. Travelling from one side of the Atlantic Ocean to the other is known as a transatlantic crossing.

The transatlantic trade contributed to the golden age of science in Europe. This era was known as the Age of Enlightenment. The maps made during the Age of Enlightenment were better than those that had been made before. Transatlantic crossings needed more accurate maps.

As we have learned, every city in the middle of a trade route becomes wealthier. London and other European cities became the centre of the new transatlantic trade and became much wealthier.

As the cities became wealthier, more money was spent on libraries and on scientific research, this led to an improvement in cartography. The Age of Enlightenment lead to the Mercator Projection, just like the Great Library of Alexandria led Eratosthenes to latitude and longitude.

No map I perfect. Every map has problems. The problem is that maps are flat, and the Earth is elliptical. It is impossible to show an ellipsis on a flat sheet of paper perfectly. Cartographers have to choose which they want to show accurately, the location, shape, or size. Whichever one they choose, the other two are distorted.

What happens to cities in the middle of trade routes?	
What word do we use to describe the golden age of science in Europe?	
What crossings meant that maps needed to be more accurate?	
What shape is the Earth?	
What 3 things do cartographers have to choose between?	

Different map projections – Mercator

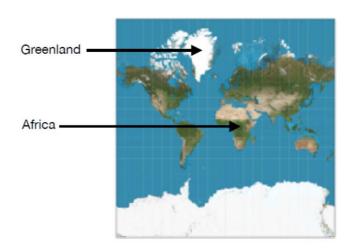
The map designed by Geraldus Mercator is called the Mercator Projection, it is the most famous map projection in the world. The Mercator Projection shows location accurately but distorts size and shape.

The Mercator Projection is especially useful for sailing. Geraldus Mercator designed it for ships making the transatlantic crossing.

The country of Greenland is smaller than the 54 countries in the continent of Africa. The area of Greenland is 2 million km². The area of Africa is 30 million km². Africa is 14 times larger than Greenland. However, on the Mercator map Greenland looks larger.

The fact that Greenland looks larger on A Mercator Projection has led to many people having misunderstandings about the size of Africa. Many people believe that Africa is smaller than it is.

The Mercator Projection



The Mercator Projection is the most famous map projection in the world, so it is the most commonly used. To help challenge the misunderstandings about the size of countries James Gall and Arno Peters created the Gall-Peters Projection



The country of Greenland, an island in the Northern Hemisphere near the Arctic



The continent of **Africa**, an island of 54 countries around the **Equator**

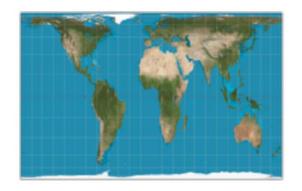
Which of the three	Will the Mercator	
options does the	Projection make	
Mercator Projection	Greenland look	
show accurately?	relatively large?	
Who would find the	Will the Mercator	
Mercator Projection	Projection make the	
useful?	continent of Africa	
	look relatively	
	smaller?	
Does distortion	Measure the length	
increase with	of Greenland and	
distance from the	Africa on the	
equator on	Mercator Projection,	
Mercator	which is projected	
Projections?	as longer?	

Different map projections – Gall-Peters and Robinson

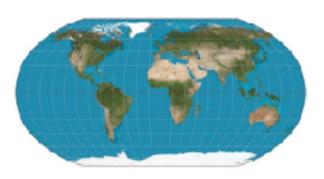
Although the Gall-Peters projection shows the size of countries correctly, it distorts the shape and location of countries.

Cartographers have continued to try and create maps which project the Earth accurately on a global scale. The Robinson projection is an example of a compromise map. The Robinson projection doesn't show shape, size, or location accurately. By not showing any one of the three factors accurately, it reduces the distortion of the other two. The Robinson Map only distorts each of the three factors a little, so it can be considered reasonably accurate.

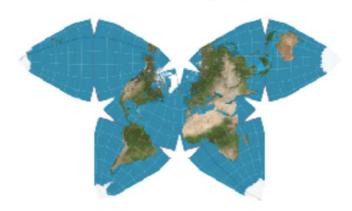
The Gall-Peter's Projection



The Robinson Projection



The Watermann-Butterfly Projection



Which projection do YOU think is the best?	
Why?	

Check so far:

What is the name of the most famous map projection?	Which sea was named for being in the middle of the land?	
What does the most famous map projection show accurately?	Which Ocean was named for being peaceful?	
What does the most famous map projection distort?	Who made the first circumnavigation of the Earth?	
Which country does Mercator show as being larger than Africa?	Which city was home to the Great Library and Eratosthenes?	
Which trade route was Christopher Columbus trying to cut short?	Which city was home to the House of Wisdom?	
Which country did Columbus think he'd sailed to?	If someone makes a transatlantic crossing which ocean have they crossed?	
Which country was Columbus trying to sail to?	If someone makes a transpacific crossing which ocean have they crossed?	
What is the name of the most famous map projection?	Which sea was named for being in the middle of the land?	

Geographers use statistics and other data



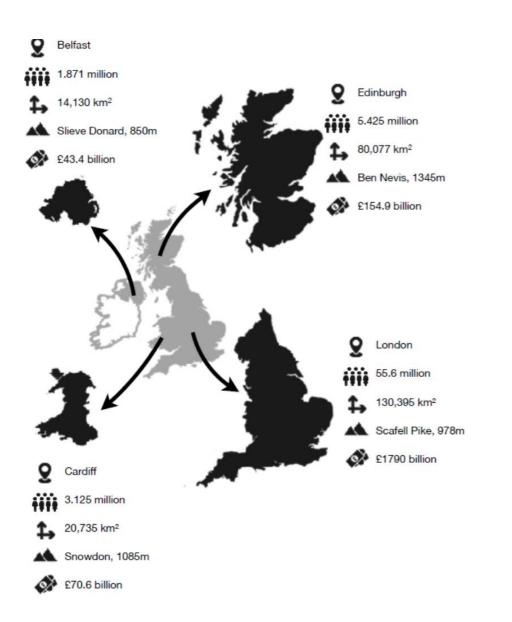
The United Kingdom

The four countries of England, Northern Ireland, Scotland, and Wales make up the United Kingdom of Great Britain and Northern Ireland.



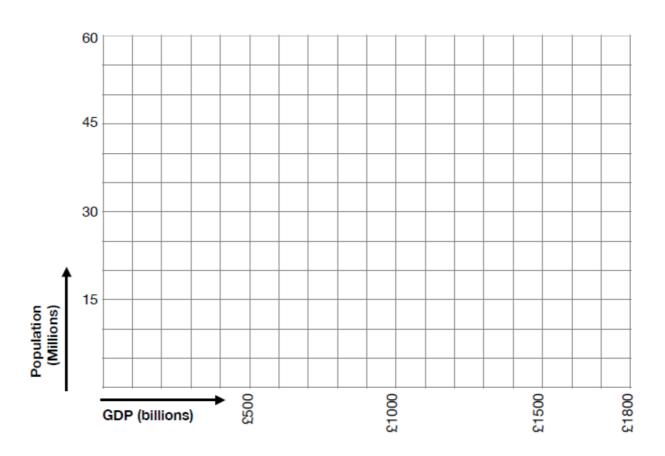
Gross Domestic Product

One of the ways to measuring the wealth of a country is by calculating the gross domestic product. The gross domestic product is the total of the all the things that are sold, and all of the work that is done, in a country, in a single year.



What is the name of the capital of Scotland?	Which country has the largest area?
Which country is Belfast the capital of?	Which country has the highest mountain?
Which country is Snowdon in?	Which country has the highest gross domestic product?
What's the name of the highest mountain in Northern Ireland?	Which country has the smallest population?

Rank the 4 countries of the United Kingdom in order of gross domestic	1st	2nd	3rd	4th
Rank the 4 countries of the United Kingdom in order of size of population				

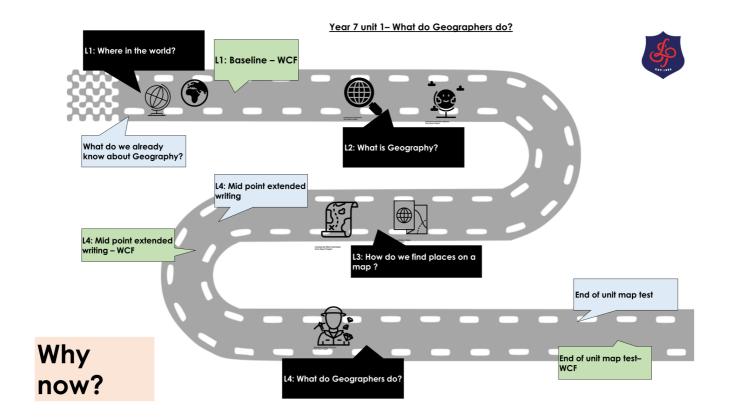


What other jobs do Geographers do?

Look through the job packs and choose 4 careers that interest you. Fill in the job profiles

Job title:	
Description of tasks/duties	
Education/Experience required	
How Geography important to this role?	
Job title:	
Description of tasks/duties	
Education/Experience required	
How Geography important to this role?	
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Job title:	
Description of tasks/duties	
Education/Experience required	
How Geography important to this role?	
Time to reflect: What do you want to do w	hen you leave school and how is Geography useful to it?



What have you learned about Geography? Top 3 pieces of information	
Why were you studying this topic? Why is it important?	
Out of the 4 lessons in the journey above, which lesson did you learn the most from?	
What is the 1 key message/ fact that you will remember from this topic?	
When we teach this unit again next year, what else do you think we should teach about? What was missing from this unit?	