



Geography Department



## Core knowledge booklet

Name:

Class:

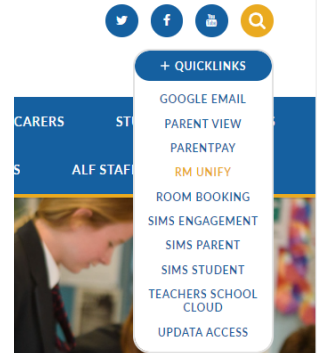
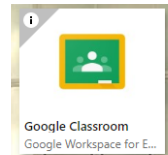
Teacher:

## Guidance for accessing homework in geography

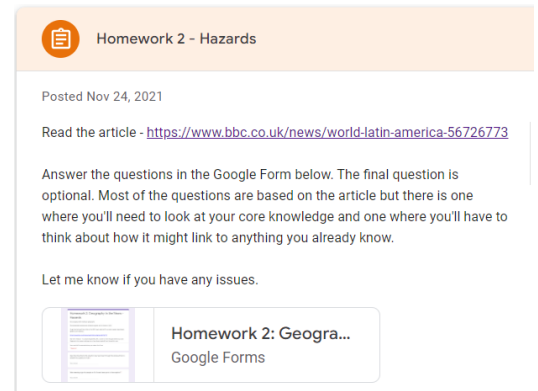
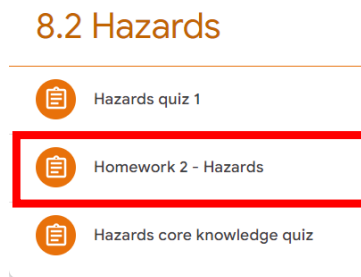
This will help to make sure you know how to find and complete the 'Geography in the news' homework that you will be set once per topic for most of the topics covered at key stage 3. This involves some geographical news that has some sort of link to the topic that you are studying

Your teacher will inform you when homework has been set and when the due date is. Paper copies will be available outside Room 30 if you have no way of accessing the internet

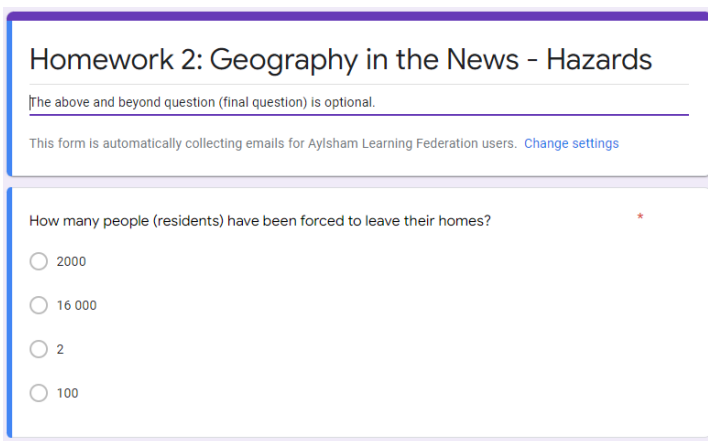
1. Log in to RM Unify using your school email address and password (the link to RM Unify can be found via the school website under the quick links tab)
2. Then go to Google Classroom, by clicking the image that looks like this, shown to the right (→)
3. Locate your geography class. With year 7 and 8, this will be the class which has your class code followed by 'Gg' (for example, 7AGg, or 8HGg). For year 9 this will appear as Op\_\_EB\_\_g, where the blanked bits will have extra numbers and letters depending on your class group (e.g. Op1AEB1g or Op2aEB3g)



4. Then find the topic that you are working on where you will see the homework that has been set for the topic. Click on that homework and you will see a link to both the article and to the Google Form where there are questions for you to answer.



5. If you are using a laptop or computer, it is handy to have the article and questions open side by side so that you can see the questions that you are trying to find answers for while you read the article.



6. The Google Form contains some multiple choice and some short answer questions. Most of the questions link to the article, but there will be a couple which are not possible to find answers to in the article. There will often be a question that needs you to think about how the article links to different parts of geography or anything that you've learnt in geography before. There is also usually a core knowledge one where you will need to refer to your core knowledge booklet to help you if you are unsure of the answer.

How does this article link to what you have previously studied in geography and/or what you already know? How does this link to other aspects of geography? \*

Short answer text

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Using your core knowledge (8.2 – hazards), volcanic eruptions can cause tsunamis if they occur under the sea. How is a tsunami a cascade effect? \*

Short answer text

7. There is also an above and beyond question which is optional, so it is not one that you have to do. This is an extension question that requires you to think a bit more deeply and often does not necessarily have an exact correct answer, but is more about your reasoning. A well thought out answer may be worth a credit.

Optional above & beyond question

This is more of an extension question which may be worth a credit for a particularly well thought out answer

Above and beyond questions: The article suggests that humanitarian aid is needed to support the people living on the Caribbean island. Justify 3 things that the country would need support with in the aftermath of the eruption

Long answer text

8. Make sure you click submit when you are finished with the Google Form, and wait for it to load and show confirmation before you close the page

Submit

9. Also on Google Classroom you should click mark as done so that it shows your teacher that your work has been submitted

Your work Assigned

+ Add or create

Mark as done

**Don't leave homework until the last minute and make sure you contact your teacher before the due date if you are having any issues**

## Core knowledge

These core questions cover key facts for each of the units you will study during year 7. It is an important revision skill to return to these throughout the year. You will be tested on these throughout the year and in your end of year exam.

### Ways to revise:

Read through the questions and answers a number of times, cover the answers and write down or read aloud the answers

Use flashcards; write the question one side and the answer on the other side

Ask someone at home to test you on a regular basis

Use Quizlet (geographyahs) – join the year 7 class to immediately find the relevant core knowledge to learn. Use the QR code below or this link to join the class: <https://quizlet.com/join/KX7D5phh3>



## 7.2 Ecosystems: Tropical Rainforest

#	Question	Answer
1	What is an ecosystem?	A community of living things interacting with the non-living environment
2	Give an example of a large scale ecosystem	Rainforest, Ocean, Desert, Savannah, Tundra etc
3	Give an example of a small scale ecosystem	Tree, Hedgerow, Pond, Meadow, Puddle etc
4	How would the climate be described in a tropical rainforest?	Hot, wet and humid
5	What is a tropical rainforest?	Forest which grows in areas with high temperatures, high humidity and high rainfall all year round
6	Name a tropical rainforest	Amazon, Central African Rainforest (Congo), South East Asian Rainforest (Indonesia), Madagascar, Papua New Guinea
7	What are the layers of the rainforest called from the ground upwards?	Shrub layer / forest floor, Lower Canopy, Canopy, Emergent
8	State one plant adaptation	Drip tips, Buttress roots, Epiphytes, Lianas, Waxy leaves
9	Describe how sloths have adapted to live in the rainforest	Algae in hair to camouflage / strong claws to hang from branches / slow moving to avoid detection etc
10	Describe how a tree frog has adapted to live in the rainforest	Has sticky pad's on feet to cling to leaves and branches / green colour to camouflage with the leaves
11	What is deforestation?	Large scale destruction of forest (over a big area)
12	What is an indigenous person?	Person who is native to a particular area
13	What is sustainable management?	Ensuring that resources are used in a controlled and careful way so that it doesn't have a negative impact on the future
14	What causes deforestation in the Amazon rainforest?	Road building, subsistence farming, commercial farming, mineral extraction, population growth, logging
15	What is the difference between subsistence and commercial farming?	Subsistence farmers grow food for themselves whereas commercial farming sell produce for profit
16	What is the name of the Amazonian tribe who live on the border between Brazil & Venezuela?	The Yanomami
17	What does it mean for a tribe to be nomadic?	They move from place to place to live off the land
18	Why are roads especially threatening for rainforests?	They give better access for machinery which can make deforestation easier

### 7.3 Ecosystems: Hot and cold environments

#	Question	Answer
1	What is the definition of a desert?	A place which receives less than 250mm of rainfall annually
2	Name a hot desert	Mojave (Death Valley), Atacama, Sahara, Arabian, Namib/Kalahari, Outback
3	Name a desert plant ( <i>just cactus on its own is not good enough</i> )	Prickly pear cactus/ Saguaro cactus / Joshua tree / Aloe Vera etc
4	Name a desert animal	Fennec Fox / Camel / Thorny Devil / Scorpion / Meerkat etc
5	State one adaptation for a cactus	Thick waxy skin, Long & deep roots, wide & shallow roots, Fleshy stem, Spikes instead of leaves, small leaves
6	State one adaptation for a camel	Long eyelashes, Fat stored in hump, Fur for insulation, Nostrils can close, Broad feet , thick leathery skin on their feet, 2 sets of eyelashes
7	How do Bushmen of the Kalahari find water that they need in the desert?	From digging up and eating tubers
8	Name 1 animal that lives in the Arctic	Polar Bears, Reindeer, Arctic Fox, Arctic Hare, Orca, Walrus
9	Name a country in the Arctic	Canada, Russia, Greenland, Iceland, Norway, Sweden, Finland
10	What is tundra?	A cold, treeless, barren landscape
11	Why do the nenets need to migrate?	The climate is too extreme for them and their reindeers to survive in northern Siberia in winter
12	The Nenet tribe live in 'chums' – what are these?	Their homes made of reindeer skins placed over a skeleton of long wooden poles.
13	Where is the Arabian Desert?	In the Middle East, along the Tropic of Cancer, stretching across a few countries including Saudi Arabia and UAE
14	What encouraged rapid growth of cities in the Arabian Desert since the 1930s?	The discovery of oil and the wealth it created
15	State one opportunity of developing the Arabian Desert	Renewable energy (e.g. solar), tourism, land availability for growth of new cities, mining for minerals, gas and oil
16	State one challenge of developing the Arabian Desert	Conflict over oil, lack of natural water resources for farming, energy use for air conditioning in hotels / shops / homes
17	What is the difference between subsistence and commercial farming?	Subsistence involves farming enough food for the farmer and their family whereas commercial involves farming for profit (sell produce)

## 7.4 Map skills

#	Question	Answer
1	Name the 7 continents of the world	Antarctica, Oceania, Africa, Europe, Asia, South America, North America
2	Name 5 oceans of the world	Pacific, Atlantic, Indian, Southern, Arctic
3	What is physical geography?	The study of natural features of a landscape
4	State a physical feature	Mountain, river, beach, woodland etc
5	What is human geography?	The study of artificial (people made) features of a landscape
6	State a human feature	School, building, car park, road etc
7	What do we use grid references for?	To help locate somewhere or something
8	What do 4 figure grid references help to locate on a map?	A 1km square – e.g. a village
8	What do 6 figure grid references help to locate on a map?	A particular point on a map – e.g. a church
9	How do we measure straight line distance on a map?	Measure using a ruler and convert using a scale
10	What are contours?	Lines which join places of equal height on a map.
11	What is a spot height?	A specific height shown on a map in metres above sea level (shown in black)
12	Contour lines that are drawn closely together tell us what about the relief of the land?	It is steep
13	Contour lines that are drawn far apart tell us what about the relief of the land?	It is flat/gentle
14	Why do we use map symbols?	To show attractions/features (without them maps would become cluttered)
15	What are the 8 points of a compass going clockwise?	North, North East, East, South East, South, South West, West, North West
16	What is scale?	The relationship between the distance on the map and real life distance

## 7.5 Weather

#	Question	Answer
1	What is the difference between weather and climate?	Weather is the day to day changes in atmosphere. Climate is the 30 year average weather over a larger area.
2	What instrument do we use to measure temperature?	Thermometer
3	What instrument do we use to measure wind speed?	Anemometer
4	What instrument do we use to measure wind direction?	Compass/ Weather vane
5	What instrument do we use to measure atmospheric pressure?	Barometer
6	What instrument do we use to measure rainfall?	Rain gauge
7	What is a microclimate?	Localised climate that is different to its surroundings
8	Give one factor which influences a microclimate	Shelter, relief, trees, hills and water, buildings
9	How do we measure microclimates?	Differences in wind speed, direction and temperatures in locations
10	What does a climate graph show?	Rainfall and temperature data for a location over a year
11	What is a convection cell?	Air moving from high to low pressure
12	Name the largest convection cell	Hadley
13	What happens when air is heated by the sun?	It becomes less dense and rises, creating low pressure at the surface
14	What weather is associated with rising air?	Low pressure, rain, wind and cloud
15	Where on Earth experiences the most heating?	Near the equator
16	What type of biome is found where air is sinking?	Deserts
17	What is extreme weather?	Conditions that are very different from normal



## 7.6 Climate change

#	Question	Answer
1	What is the greenhouse effect?	Heat is trapped in Earth's atmosphere by gases like carbon dioxide
2	What has been the general pattern of global climate since the 1700s?	Temperatures have warmed
3	What are greenhouse gases?	A gas which traps heat on Earth by reducing the loss of heat to space
4	Give an example of a greenhouse gas	Carbon dioxide, methane, nitrous oxide
5	How does the enhanced greenhouse effect differ from the natural greenhouse effect?	Humans have added more greenhouse gases so more heat energy is trapped in the atmosphere.
6	What activities do humans do which cause climate change?	Deforestation, keeping cattle for meat & dairy production, burn fossil fuels for transport and electricity
7	What factors can naturally lead to changes in climate?	Changes in solar energy, Earth's tilt, Earth's orbit and volcanic eruptions
8	What type of countries have typically contributed to climate change most?	Higher income countries (HIC)
9	Note down one current impact of climate change	Ice melting (sea ice and glaciers), sea level rise, drought, extreme weather
10	Why might food supply be affected by climate change?	Changing rainfall patterns could mean crops don't have enough water to grow Different pests and diseases may lead to a loss of crops
11	How can animals be threatened by climate change?	Habitats are changing that can harm the food web and risk extinctions
12	How could rainforests be impacted in the future?	It could get drier and turn to savannah grasslands instead
13	What is the Kyoto Protocol?	An international agreement to reduce carbon emissions
14	What can be done to help solve issues with climate change?	Adapt to changes and try to reduce emissions to prevent climate change being more extreme.
15	What is the difference between mitigation and adaptation?	Mitigation deals with causes of climate change whereas adaptation deals with the impacts

# Wider reading list

These are some suggestions of useful books to read to further your understanding of the topics you are studying this year. They vary in complexity and the ones with a \* next to are the more difficult books to understand.

Please let your geography teacher know if you read any these or if you come across any other great geography books we can add to the list.

## What is geography? / Map skills

Simor Garfield: On the map: Why the world looks the way it does \* (*non-fiction*)

Scot Ritchie: Follow that map: A first book of mapping skills (*non-fiction*)

Malcolm and Alexander Swanston: How to draw a map \* (*non-fiction*)

James Doyle: Where on Earth? Geography without the boring bits (*non-fiction*)

Horrible Geography series: Horrible Geography of the World (*non-fiction*)

Tim Marshall: Prisoners of Geography: Our world explained in 12 simple maps \* (*non-fiction*)

## Ecosystems: Tropical rainforests

Horrible Geography series: Bloomin Rainforests (*non-fiction*)

Simon Chapman: Borneo Rainforest (Expedition diaries) (*non-fiction*)

Katherine Rundell: The Explorer (*fiction*)

Gerard Cheshire: The Tropical Rainforest (Nature unfolds) (*non-fiction*)

Richard Platt: The Vanishing Rainforest (*non-fiction*)

Eva Ibbotson: Journey to the River Sea (*fiction*)

## Ecosystems: Hot and cold environments

Horrible Geography series: Desperate deserts (*non-fiction*)

Sara Wheeler: The Magnetic North: Travels in the Arctic \* (*non-fiction*)

Ellen Labrecque: Arctic Tundra (Earth's last frontiers) (*non-fiction*)

Professor Alex Woolf: Expedition to the Arctic (*non-fiction*)

Alan Parkinson: The Ice Man (*fiction*)

Mike Gould: The Race to the Pole (*non-fiction*)

Michael Palin: Pole to Pole \* (*non-fiction*)

Michael Palin: Sahara \* (*non-fiction*)

Louis Sachar: Holes \* (*fiction*)

## **Weather**

Jen Green: Weather patterns \* (*non-fiction*)

Jen Green: Weather in 30 seconds (*non-fiction*)

Christiane Dorian and Beverley Young: How the weather works (*non-fiction*)

Virginia Bergin: The Rain \* (*fiction*)

## **Climate change**

Gail Herman: What is Climate change? (*non-fiction*)

Baby Professor: What every child should know about climate change? (*non-fiction*)

Marcus Sedgewick: Floodland (*fiction*)

Saci Lloyd: The Carbon Diaries \* (*fiction*)

Lauren James: The Quiet at the End of the World \* (*fiction*)