



Spring Term Term 2 Geography

Year 10

name:		
Tutor		



Year 10 Homework Timetable

Monday	English Task I	Ebacc Option A Task I	Option C Task I
Tuesday	Option B	Modern Britain	Science
	Task I	Task I	Task I
Wednesday	Sparx	Option C	Sparx
	Maths	Task 2	Science
Thursday	Ebacc Option A Task 2	Sparx Catch Up	Option B Task 2
Friday	Modern Britain	Science	English
	Task 2	Task 2	Task 2

Sparx Science

- Complete 100% of their assigned homework each week Sparx Maths
- Complete 100% of their assigned homework each week

Option A (EBACC)
French
Geography
History

Option B
Art
Business Studies
Catering
Music
Sport
IT
Childcare
Triple Science
Travel and Tourism

Option C Business Studies
Business Studies
Catering
Drama
Health & Social Care
Sport
Computer Science
Media
Photography
Sociology

	Half Term 3 (5 weeks) - Year 10				
Week / Date	Homework task 1 Cornell Notes	Homework task 2 Exam Question			
Week 1 8th January 2024	Cornell Notes on: Squatter settlements and the Favela Barrio Project	Question : To what extent has the Favela Barrio Project been a success? (6)			
Week 2 15th January 2024	Cornell Notes on: Regeneration in Bristol	Question : 'Regeneration' in Bristol has improved social and economic quality of life. To what extent do you agree with this statement? (6)			
Week 3 22nd January 2024	Cornell Notes on: Sustainable strategies in Freiburg	Question : Explain how Freiburg is becoming more sustainable. (6)			
Week 4 29th January 2024	Cornell Notes on: A small scale ecosystem	Question : Describe the features of a small scale ecosystem. (4)			
Week 5 5th February 2024	Cornell Notes on: Biomes and tropical rainforests	Question : Outline the difference between the 4 layers of the rainforest. (4)			

Half Term 4 (6 weeks) - Year 10				
Week / Date	Homework task 1 Cornell Notes	Homework task 2 Exam Question		
Week 6 19th February 2024	Cornell Notes on: Plant adaptations in the rainforest	Question : Describe and explain how plants have adapted to live in a tropical rainforest environment. (6)		
Week 7 26th February 2024	Cornell Notes on: Animal adaptations in the rainforest	Question : Describe and explain how animals have adapted to live in a tropical rainforest environment. (6)		
Week 8 4th March 2024	Cornell Notes on: Causes of deforestation	Question : Outline the main causes of deforestation. (4)		
Week 9 11th March 2024	Cornell Notes on: Threats to the Malaysian rainforest	Question : Evaluate the impacts of logging and commercial farming in Malaysia. (6)		
Week 10 18th March 2024	Cornell Notes on: Impacts of deforestation in Malaysia	Question : The economic gains of deforestation outweigh the environmental losses. To what extent do you agree with this statement? (9)		
Week 11 25th March 2024	Cornell Notes on: Sustainable management of the rainforest	Question : Describe the benefits of ecotourism and selective logging in sustainably managing rainforests. (4)		

	Geography Year 10 Knowledge Organiser: Half term 3 and 4						
Session	Keywords	Knowledge		Geographical concepts			
	Your assessment will be in Week 3 of this term (Half term 3) Paper 2: Urban Issues and Challenges (Rio, Bristol and Freiburg)						
l Revision	Squatter Settlement: An area of poor-quality housing, lacking in services such as water supply, sewerage and electricity. Favela: The name give to squatter settlements in Rio.	 Education: Compulsory in Brazil for children aged 6-14. School enrolment in Rio is low, drop-out rates are high. Crime: A high murder rate of 20 per 1000 people in many 		Economic Challenges Unemployment rates in the favelas are over 20%. Environmental Challenges Guanabara Bay is highly polluted causing a major threat to wildlife. Commercial fishing has declined 90% in the last 20 years.			
Favela Barrio Project: An Urban planning scheme to improve the quality of life for the Favela dwellers. Site Service Scheme: The local authority provides land and services for residents to build homes.		 Favela Barrio Project: A site and service scheme where they have: Paved roads; improved access to a water supply and Improved sanitation, A new cable car system – one free ticket per resident per day so it is less dangerous to travel through the favela. They are hubs or health and police centres. The Pacifying Police Unit: with police patrolling the favelas. 		Has the Favela Barrio Project been a success? The quality of life, mobility and employment prospects of the inhabitants have improved. There are still problems The newly built infrastructure is not being maintained. Residents lack the skills and resources to make repairs More training is needed to improve literacy. The cable car system since the Olympics in many Favelas was abandoned.			
2 Revision	2 Regeneration: The process of improving an area that has been Redevelopment of old brownfield site buildings – help to		 Temple Quarter Regeneration project: Enterprise zone status: Offer incentives to businesses to move to the area including low rents and business taxes. Superfast Broadband to expand the successful IT industry. The Glass Wharf A new office development of 3 spectacular buildings overlooking Bristol's historic waterside. Electrification of the London to Bristol railway Electrification of the London to Bristol Line so easier to attract business as they can still work with partners in London. Creating faster connections between the cities. The Engine Shed The re-use of Islamabad Kingdom Brunel's historic engine shed Cost £1.7million / Installed with superfast broadband Home to high-tech, creative companies including; micro-electronics, media and digital production companies 				

	Geography Year 10 Knowledge Organiser: Half term 3 and 4					
Session	Keywords	Knowledge	Geographical concepts			
3 Revision	Integrated Transport System When different transport methods connect together, making journeys smoother and therefore public transport more appealing. Urban Greening: The process of increasing and preserving open space such as public parks and gardens in urban areas. Conservation: The preservation or efficient use of resources	 Location: Freiburg is in west Germany. The city has a population of about 220,000. In 1970 it set the goal of focusing on social, economic and environmental sustainability. Sustainable Transport Strategy in Freiburg: The city has an integrated traffic plan. Better integration should result in more demand for public transport and should see people switching from private car use to public modes of transport, which should be more sustainable. It may also lead to a fall in congestion due to less road users. 400 km of cycle paths exist in the city making it safe for people to cycle to work. There are restrictions for parking cars in the center (spaces cost £20,000). The tram network covers 30 km, 70% of the population live within 500m of a tram stop. Result: Car usage has fallen 10% since 1982. 	 Green Spaces: 40% of the city is forested. 44,000 trees have been planted and only 78 of 240ha have been built on. Waste recycling: Freiburg has reduced waste disposal from 140,000 tons to 50,000 tons in 12 years. 88% of packaging is recycled and 320 community collection points are available. Water conservation: strategies include, green roofs and pervious pavements which allow water to soak through, filtering pollutants. Energy conservation: There are 400 solar panel installations in the city, reducing reliance on fossil fuels. 			
4 Introduction to Ecosystems	Producers: In an ecosystem plants generate glucose (sugar) using the sun's energy (photosynthesis). Consumers: In an ecosystem animals feed by eating plants and other animals. Decomposers: In an ecosystem fungi feed by making dead plants and animals rot.	An ecosystem is a community of plants and animals that interact with each other and their environment. A food chain (Figure 1) shows how plants and animals get their energy. A food chain starts with a producer , which make their food by photosynthesis . Consumers are next in the chain. Figure 1	When all the food chains in an ecosystem are joined up together, they form a food web The hot, damp conditions on the rainforest floor allow for the rapid decomposition of dead plant material. This provides plentiful nutrients that are easily absorbed by plant roots. However, as these nutrients are in high demand from the many fast-growing plants, they do not remain in the soil for long and stay close to the surface. If vegetation is removed, the soils quickly become infertile .			

	Geography Year 10 Knowledge Organiser: Half term 3 and 4				
Session	Keywords	Knowledge	Geographical concepts		
5 Biomes and tropical rainforests	A biome is a large scale ecosystem eg desert, polar, tundra, tropical rainforest, coniferous forest, savanna Rainforests are wet with over 2,000 mm of rainfall per year and warm with an average daily temperature of 28°C. Temperatures never drops below 20°C and rarely exceeds 35°C.	There are 4 layers to a rainforest Emergent: the tallest section, lots of light. Birds and butterflies live here Canopy: More light here, makes up the most of the rainforest vegetation. In the canopy, tall trees which block most sunlight Under canopy: Some light, new young trees competing to get through the canopy. Monkeys and other animals live here, Llianas and other plants hang down to the floor. Shrub layer: dark damp, lots of tree litter, large tree trunks. Lots of insects.	The geographical location of tropical rainforests In a description of location you should include: lines of latitude, continents, countries and oceans. Tropical rainforests are found in areas near the equator, between the tropics of Cancer and Capricorn. These countries include northern South America, Central Africa, Indonesia and northern India. An example of a tropical rainforest is the Amazon which is mostly found in Brazil.		
6 How plants are adapted to living in the rainforest	Adaptation: the process of change by which an organism (plant or animal) becomes better suited to its environment	Plant adaptations to the rainforest: EMERGENTS - Some trees are fast growing to EMERGE above forest canopy and capture sunlight. LIANA — a plant that takes root in soil but that is supported by trees so it can grow upwards to get sunlight DRIP TIP leaves to allow excess water to spill off, preventing leaf damage. Many trees have wide deep BUTTRESS roots at the base to stabilise the tree. EPIPHYTES - these are plants which live on the branches of trees high up in the canopy. They get their nutrients from the air and water, not from the soil.	Fast-growing trees such as kapok out-compete other trees to reach sunlight – such trees are called emergents Many leaves have a 'drip tip' to allow the heavy rain to drip off the leaf		
How animals are adapted to living in the rainforest	Adaptation: the process of change by which an organism (plant or animal) becomes better suited to its environment	Animal adaptations to the rainforest: The SPIDER MONKEY has long limbs and e strong tail for living in the canopy. They also have sharp nails for peeling off the bark to eat the sap underneath. ANTEATERS are mammals that live in the ground layer. They have long tongues that can gather up to 35,000 ants and termites each day and sharp claws that can tear open anthills. Anteaters have a good sense of smell to find food The FLYING FROG has web-like feet which allow it to glide through the air to escape predators.	Shrub layer and ground layer Buttresses – massive ridges help support the base of the tall trees and help transport water. May also help oxygen/carbon dioxide exchange by increasing the surface area Thin, smooth bark on trees to allow water to flow down easily Plants called epiphytes can live on branches high in the canopy to seek sunlight – they obtain nutrients from water and air rather than soil Lianas – woody creepers rooted to the ground but carried by trees into the canopy where they have their leaves and flowers		

Geography Year 10 Knowledge Organiser: Half term 3 and 4				
Session	Keywords	Knowledge	Geographical concepts	
8 Deforestation	Deforestation is the permanent destruction of forests in order to make the land available for other uses.	Rainforests are important because: 1. They remove carbon dioxide from the atmosphere. 2. Provides habitats for 75% of the world's plants and animals 3. They regulate the earth's climate 4. About 25% of all medicines come from rainforest plants	 Deforestation is the main threat to rainforests. Deforestation is often caused by one of these three activities; I. Mining: destroys trees and habitats. Chemicals and toxins infiltrate into the ground and get into the water table 2. Cattle farming- Land cleared for cattle as well as for growing the feed for the cattle. 3. Crops- forest areas cleared and burned to make room for new crops eg Soya beans. The burning releases greenhouses into the atmosphere, the soil will have less nutrients in because there is a smaller variety of plants. Habitats destroyed. 	
9 Deforestation In Malaysia	A rainforest works through interdependence. The plants and animals depend on each other for survival. If something changes, there are knock-on effects for the ecosystem.	Malaysia is a LIC country is south-east Asia. 67% of Malaysia is a tropical rainforest with 18% of it not being interfered with. However, Malaysia has the fastest rate of deforestation compared to anywhere in the world	Causes of deforestation Road Building: In Malaysia, logging companies use an extensive network of roads for heavy machinery and to transport wood. Logging: Timber is harvested to create commercial items such as furniture and paper. Agriculture: Large scale 'slash and burn' of land for ranches and palm oil. Increase in palm oil is making the soil infertile. Mineral Extraction: Precious metals are found in the rainforest. Areas mined can experience soil and water contamination Energy Development: Hydro-electric power (HEP). • The Bakun Dam was built in 2011 in Malaysia is key for creating energy in this developing country, however, both people and environment have suffered as it flooded 700km² of rainforest.	

		Geography Year 10 I	Knowledge Organiser: Half term 3 and 4		
Session	Keywords Knowledge Geographical concepts				
I0 Economic gains and losses of deforestation	Deforestation has significant economic benefits + Mining, farming and logging creates employment and tax income for government. + Products such as palm oil provide valuable income for countries. Uncontrolled and unchecked exploitation can cause environmental damage Soil erosion: - Once the land is exposed by deforestation, the soil is more vulnerable to rain Climate change: -Trees are carbon 'sinks'. With greater deforestation comes more greenhouse emissions in the atmosphere.		Economic gains Job creation – directly in construction and operations, and indirectly in supply and support industries. Tax revenue used to supply public services (e.g. education). Improved transport infrastructure benefits development and tourism. Plantation products support processing industries. HEP is cheap and plentiful. Minerals are valuable.	Economic losses Water pollution in an increasingly dry climate may limit supplies. Fires pollute and destroy vast areas of valuable forest. Rising temperatures could devastate established farming. Plants that could form the basis of hugely profitable medicines may become extinct. Climate change could have economic costs (see 4.4 and 4.5). Rainforest tourism could decrease.	
II Biodiversity and sustainable uses of tropical rainforests	Biodiversity is a variety of species of plants and animals in a habitat Main issues with biodiversity decline Keystone species (a species that are important of other species) are extremely important in the rainforest ecosystem. Humans are threatening these vital components. Decline in species could cause tribes being unable to survive. Plants & animals may become extinct. Key medical plants may become extinct.		 Possible strategies for the sustainable use of Agro-forestry - Growing trees and crops at the crops benefit from the nutrients. Selective logging - Trees are only felled when Education - Ensuring those people understand Afforestation - If trees are cut down, they are Forest reserves - Areas protected from explo Ecotourism - tourism that promotes the envir 	they reach a particular height. the consequences of deforestation replaced. itation.	

STEP 2:		
CREATE		
CUES		
CUES	STEP 1: RECORD YOUR NOTES	
What: Reduce your		
notes to just the essentials.	What: Record all keywords, ideas, important dates, people, places,	
	diagrams and formulas from the lesson. Create a new page for each topic discussed.	
What: Immediately		
after class, discussion, or	When: During class lecture, discussion, or reading session.	
reading session.	How:	
How:	Use bullet points, abbreviated phrases, and pictures	
 Jot down key 	Avoid full sentences and paragraphs	
ideas, important	Leave space between points to add more information later	
words and phrases	Why: Important ideas must be recorded in a way that is meaningful to you.	
 Create questions 		
that might		
appear on an exam		
 Reducing your 		
notes to the		
most important ideas and		
concepts		
improves recall.		
Creating		
questions that may appear on		
an exam gets		
you thinking		
about how the information		
might be applied		
and improves		
your performance on		
the exam.		
Why: Spend at		
least ten minutes		
every week		
reviewing all of your previous		
notes. Reflect on		
the material and		
ask yourself questions based		
on what you've		
recorded in the		
Cue area. Cover the note-taking		
area with a piece		
of paper. Can you		
answer them?		

STEP 3: SUMMARISE & REVIEW

What: Summarise the main ideas from the lesson.

What: At the end of the class lecture, discussion, or reading session.

How: In complete sentences, write down the conclusions that can be made from the information in your notes.

Why: Summarising the information after it's learned improves long-term retention.

WEEK 1: Cornell Notes (Homework task 1)

Date08 / 01 / 24Topic: Squatter settlements and the Favela
Barrio ProjectRevision guide page:
93-94

links	Notes
	Social challenges in squatter settlements
Questions	
	Economic challenges in squatter settlements
	Outline Favela Barrio Project
	Successes / challenges of the Favela Barrio Project

WEEK 1: Exam Question (Homework task 2)

Date 08/01/24

Question: To what extent has the Favela Barrio Project been a success? (6)
Answer:

WEEK 1: Exam Question review and improvement (Classwork)

Question: To what extent has the Favela Barrio Project been a success? (6) Answer: _____

WEEK 2: Cornell Notes (Homework task 1)

Date 15 / 01 / 24 Topic: Regeneration in Bristol Revision guide page: 104-105

links	Notes		
	Reasons the regeneration was needed		
Questions			
	What is an Enterprize Zone?		
	The three key features of the regeneration		
	1. Glass Wharf		
	2. Electrification of the railway to London		
	3. Engine Shed		

WEEK 2: Exam Question (Homework task 2)

Date 15/01/24

Question : 'Regeneration' in Bristol has improved social and economic quality of life. To what extent you agree with this statement? (6)	do
Answer:	

WEEK 2: Exam Question review and improvement (Classwork)

Question: 'Regeneration' in Bristol has improved social and economic quality of life. To what extent do

you agree with this statement? (6) Answer:

WEEK 3: Cornell Notes (Homework task 1)

Date 22 / 01 / 24 Topic: Sustainable strategies in Freiburg Revision guide page: 107

links	Notes
Questions	Freiberg's sustainable transport plan
	Cycle paths
	Parking restrictions
	• Trams
	Green Spaces
	Waste recycling
	Water and energy conservation

WEEK 3: Exam Question (Homework task 2)

Date 22/01/24 Question: Explain how Freiburg is becoming more sustainable. (6) Answer:

WEEK 3: Exam Question review and improvement (Classwork)

Question: Explain how Freiburg is becoming more sustainable. (6) Answer:

WEEK 4: Cornell Notes (Homework task 1)

Date 29 / 01 / 24 Topic: A small scale ecosystem Revision guide page: 39

Notes
Producers
Consumers
Decomposers
Ecosystem
Food chain (draw an example)
Food web
Why do rainforest soils have less nutrients?

WEEK 4: Exam Question (Homework task 2)

Date 29/01/24

Question : Describe the features of a small scale ecosystem (producers, consumers and decomposers - give an example). (4)
Answer:
WEEK 4: Exam Question review and improvement (Classwork)
Answer:

WEEK 5: Cornell Notes (Homework task 1)

Date 05 / 02 / 24 Topic: Biomes and tropical rainforests Revision guide page: 40

Links	Notes
	Definition of a Biome:
自然數	
Questions	4 Layers of a rainforest (describe each layer)
Questions	1.
	2.
	3.
	4.
	Where are Tropical Rainforests found (and why)?
	Where are Deserts found (and why)?
	Where are Deserts found (and why)?

WEEK 5: Exam Question (Homework task 2)

Date 05/02/24

Question: Outline the difference between the 4 layers of the rainforest. (4) Answer: WEEK 5: Exam Question review and improvement (Classwork) Answer:

WEEK 6: Cornell Notes (Homework task 1)

Date 19 / 02 / 24 Topic: Plant adaptations in the rainforest

links	Notes
	Emergent trees and Butress Roots
回路	
Questions	
Quodiono	
	Lianas
	Drip tip Leaves
	Epiphytes
L	<u> </u>

WEEK 6: Exam Question (Homework task 2)

Date 19/02/24

Question: Describe and explain how plants have adapted to live in a tropical rainforest environment. (6
Answer:

WEEK 6: Exam Question review and improvement (Classwork)

Answer:	
	-

WEEK 7: Cornell Notes (Homework task 1)

Date 26 / 02 / 24 Topic: Animal adaptations in the rainforest

links	Notes
	Spider monkey
Questions	
	Anteater
	Flying Frog
	Other

WEEK 7: Exam Question (Homework task 2)

Date 26/02/24

Question : Describe and explain how animals have adapted to live in a tropical rainforest environment. (6)
Answer:

WEEK 7: Exam Question review and improvement (Classwork)

Question : Describe and explain how animals have adapted to live in a tropical rainforest environment. (6)
Answer:

WEEK 8: Cornell Notes (Homework task 1)

Date04 / 03 / 24Topic: Causes of deforestationRevision guide page 43

links	Notes
	Why are rainforests important?
自然新	
Questions	
	Causes of deforestation
	1. Mining
	2. Cattle Farming
	3. Crops

WEEK 8: Exam Question (Homework task 2)

Date 04/03/24

	e the main causes	of deforestation	n. (4)		
nswer:					
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK		estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	
WEEK	8: Exam Que	estion revie	ew and imp	rovement (Cla	

WEEK 9: Cornell Notes (Homework task 1)

Date 11 / 03 / 24 Topic: Threats to the Malaysian rainforest Revision guide page 43-44

links	Notes
国際発売国	Road building
Questions	
	• Logging
	Agriculture
	Mineral extraction
	Energy Development (Bakun Dam)

WEEK 9: Exam Question (Homework task 2)

Date 11/03/24

Question: Evaluate the impacts of logging and commercial farming in Malaysia. (6)		
Answer:		

WEEK 9: Exam Question review and improvement (Classwork)

Question:	
Answer:	

WEEK 10: Cornell Notes (Homework task 1)

Date18 / 03 / 24Topic: Impacts of deforestation in MalaysiaRevision guide page
43-44

links	Notes
回答(6)(K回 7 5 (2)(K回	Economic Gains of deforestation
Questions	
	Economic losses of deforestation

WEEK 10: Exam Question (Homework task 2)

Date 18/03/24

Question : The economic gains of deforestation outweigh the environmental losses. To what extent do you agree with this statement? (9)		
Answer:		

WEEK 10: Exam Question review and improvement (Classwork)

Question: The economic gains of deforestation outweigh the environmental losses. To what extent do

you agree with this statement? (9) Answer: _____

WEEK 11: Cornell Notes (Homework task 1)

Date25 / 03 / 24Topic: Sustainable management of the rainforestRevision guide page 46

Notes
Agro-forestry
Selective logging
• Education
• Afforestation
Forest reserves
• Ecotourism

WEEK 11: Exam Question (Homework task 2)

Date 25/03/24.

Question : Describe the benefits of ecotourism and selective logging in sustainably managing rainfo (4)	orests.
Answer:	
WEEK 11: Exam Question review and improvement (Classwork	
Answer:	



Develop your character

