

Year group: 8 Subject: Geography Topic: What are the factors that affect population?

Context: In this unit students will look at how global population has changed over time and then explore how natural increase and migration can affect the population of a particular area. Students will then go on to consider how governments around the World have worked to try and control their population through a combination of pro and anti natalist policies as well as different rules centered on migration. The assessment for this unit will take the form of a skills test focused on interpreting population data from a variety of graphs and using simple statistical techniques.

Learning Journey

Prior Learning: In year 7 students were briefly introduced to some of the factors that may influence where people live considering the impact of natural hazards and coastal processes. They have also done some basic mapping work of key urban areas across the UK and some of the major global cities.

Learning Sequence							Endpoint
Main	Students will use	Students look at	Students explore	Students will look	Students will briefly	Students finish the	Students are able
learning	data to construct a	how population	the factors that	at population	consider some of	unit looking at the	to interpret a range
Steps	graph showing how	increase is driven	effect population	structure learn how	the issues caused	causes and effects	of data related to
	global population	by natural increase	density, thinking	this can be shown	by over and under	of migration for	population change
	has increased and	and examine the	about why places	on a population	population, before	both the places and	and explain how
	practice describing	reasons behind this.	are sparsely or	pyramid.	looking at how	people involved.	and why population
	trends shown on a		densely populated.		governments try to		changes over time
	graph.				control population.		and space.
Assessment	Use of highlighters	Students identify	Students identify	Students can draw	Students will have		Students complete
	to <u>self-assess</u> graph	factors which	connectives within	and interpret	completed an		a short skills test
	description picking	influence birth and	their explanation of	population	overview of		with answers being
	out where dates,	death rates and can	why different	pyramids. This will	different		<i>peer assessed</i> with
	figures and adverbs	calculate natural	factors influence	be <u>self-assessed</u>	population policies.		guidance from class
	have been used.	increase. This will	population density.	with guidance from			teacher.
		be <u>self-assessed</u>		teacher.			
		with guidance from					
		teacher.					

Where will we use these ideas again?

The issue of overpopulation underpins much of what is learnt through the rest of year 8, notable the units on resource consumption and challenges facing our urban environments. It is also a key theme at GCSE particularly for paper 2, Challenges in the Human Environment. The mathematical skills developed in this unit are also an important foundation for future GCSE study where there is a heavy reliance on students being able to manipulate data through a variety of mathematical techniques.



completed a Venn

diagram which will

highlight whether they

have understood the

ways in which

classified.

resources can be

Walthamstow School for Girls: Humanities Faculty

Year group: 8 Subject: Geog Topic: What is the problem with resource consumption?

Context: Having completed our introductory unit for year 8 on population, we now move on to looking at the challenges that our growing population creates in terms of ensuring there is enough food, water and energy for everyone. We will consider some of the impacts of trying to meet growing demand and consider what changes society might need to make to ensure that we are living in a way that our resource consumption is more sustainable.

Learning Journey

Prior Learning: Students have already examined the causes of our rapidly growing population and started to consider some of the issues that overpopulation might bring. Learning Sequence Endpoint This unit begins with an Students will look at Students will look at Students will examine Students will learn Students will be able to Main examination of what water scarcity, why this the issues we face in the issues we face with about alternative explain the issues of learning we mean by 'resources' is a growing challenge. providing enough food our current reliance on water scarcity, food Steps energy sources and and the ways in which for everyone, the shortages and energy For HW students will fossil fuels as our main evaluate the pros and different types of investigate some source of energy. cons of these types of insecurity as well as problems this creates resource can be possible solutions to and some possible some possible solutions renewable energy. this challenge. to these challenges. classified. They will also solutions. start to consider the challenges we face with growing global demand for resources. Students will complete Students will have Assessment Students write an essay

outlining the challenges

we face in meeting water, food and energy

demand and identify

which resource issue

significant.

they believe is the most

Where will we use these ideas again? The idea of sustainable energy will feed into the next unit on settlement and the ways we can change urban design to make it more sustainable. The work completed on global warming and climate change will also support some of the learning in the year 7 unit on weather and climate when we look at extreme weather. At KS4, paper 2 has an entire unit focused on the challenge of resource management which explores these themes in much more detail.

a diamond 9 where

they practice giving

justification for an

support with the end of

unit essay they have to

opinion. This will

write.



Year group: 8 Subject: Geography Topic: What challenges are there in Urban Environments?

Context: This is the third unit of year 8 and follows on from the units on population growth and resources. Having examined how and why population is changing, students look at how population growth is impacting upon the places we live. Students begin by looking at urbanisation and the growth of 'megacities' considering the impact such large urban spaces can have on our natural and built environment. Student then look at how life in cities differs around the World, contrasting life in Rio with London. There will be a particular focus on life in favelas with a consideration of what can be done to make improvements for slum residents. Finally, students will look at what can be done to make cities more sustainable with a focus on Masdar City in Abu Dhabi, questioning whether this is really a good model for the future of urban living. The unit ends with an assessment which requires students to design their own sustainable urban space, explaining how different features of their design promotes sustainability.

Learning Journey

<u>Prior Learning</u>: Students previously looked at the challenge of population growth and its impact on access to resources. This unit takes this idea further, exploring the impact on the places in which we live. Students already have a grounding in the concepts of migration and the factors which drive this movement, as well as natural increase and why this occurs. In year 7, students also looked at what is meant by 'Urban,' identifying some of the main urban areas in the UK.

•	•		Learning Sequer	ice			Endpoint
Main	Students begin by	Students examine	Students compare	Students look at life	Students will look	Students examine	Students will know
learning	examining different	the concept of our	life in London to	in Rio's favelas and	at what can be	how Masdar City Is	the key features of
Steps	types of settlement	largest 'megacities'	that in Rio to see	how different stake	done to make	trying to promote	sustainable urban
	and looking at how	and think about the	the similarities and	holders are trying	settlements more	sustainable living	design and be able
	through	challenges such	differences that	to address some of	sustainable.	and question the	to explain how
	urbanisation and	environments	exist in different	the challenges		extent to which is	different features
	urban sprawl they	create.	large cities.	facing residents.		has achieved this.	can promote
	change over time.						sustainability.
Assessment					There is a core		Students complete
					formative		a DME where they
					assessment task for		locate different
					this part of the unit		features in a new
					where students will		settlement and
					design their own		explain what can be
					sustainable school		done to promote
					and then explain		sustainability in
					their design ideas.		their new town.

Where will we use these ideas again? This unit provides the foundation for the GCSE unit "Urban Issues and Challenges" where students will develop their knowledge and understanding of these themes and others in different cities around the World.



Year group: 8 Subject: Geog Topic: Why do we get different types of weather?

Context: In this fourth unit, we shift our focus from looking at predominantly human geography themes linked to population growth and its impacts, to exploring a core physical geography topic, weather. We will study the core fundamentals which determine different types of weather and climate. This will require looking at a wide range of complex geographical terminology so the assessment for this unit will be focused on students disciplinary literacy and their understanding of key terms. We will then look at examples of extreme weather with an emphasis on tropical storms. This will include a project where students produce a newspaper report on Typhoon Haiyan.

Learning Journey

<u>Prior Learning</u>: Students will have some sense of the causes of climate change, itself a contributor to extreme weather events. They will also have some sense of how geographical events can be hazardous from their year 7 work on tectonics. The emphasis here is now on atmospheric hazards but principles of hazard risk and hazard management are similar and provide a solid foundation for this unit of work.

Learning Sequence							
Main	Students begin this	Students will	Students will	Students will look	Students will be	Students conclude	By the end of this
learning	unit by exploring	examine factors	examine how we	at examples of	introduced to	the unit by looking	unit we want
Steps	the difference	which determine	measure weather.	extreme weather.	tropical storms.	at Typhoon Haiyan.	students to have a
	between weather	temperature and	They will also look	They will then	They will look at	They will use their	sound grasp of the
	and climate and	rainfall. They will	at how weather	consider whether	their character,	class work as the	processes which
	consider the	then examine how	data can be display	the UKs weather is	causes, effects and	basis for writing a	contribute to
	characteristics of	this data can be	including through	becoming more	how people	newspaper report	different types of
	different climate	shown on a climate	the use of synoptic	extreme.	manage such	on this disaster.	weather including
	zones.	graph.	weather symbols.		events.		extreme weather.
Assessment		Students will	Students will be	Students will have		Students will have	This unit will be
		produce and	able to identify a	reviewed the UKs		produced a	assessed through a
		interpret a climate	range of weather	recent weather		newspaper report	short key term test
		graph, developing	instruments and	history, producing a		which can be peer	offering students a
		their geographical	interpret synoptic	timeline of extreme		assessed to offer	chance to show
		skills in the process.	weather symbols.	weather events.		comment on the	their understanding
						quality of language	of specialist
						and explanation of	geographical
						processes.	terminology.

Where will we use these ideas again? Issues of climate change and it's impact will crop up again in year 9 when looking at glaciers and also Earth's future. For those who choose to study geography at GCSE the fundamentals of this unit will provide a solid foundation for the work on atmospheric hazards and also ecosystems which are both core components for paper 1.



Year group: 8 Subject: Geog Topic: How do rivers shape the land?

Context: This unit focuses on how river processes shape the landscape. It builds on the key ideas about the processes of erosion, transportation and deposition which were introduced in the year 7 unit on coastal landscapes and considers how these same processes work together to shape river landscapes. The unit also builds on the previous unit of weather, particularly in the second half of the unit where it considers how river environments respond to climatic events and can cause flooding events. It finishes with a consideration of adaptation and mitigation strategies thinking about how people can try to manage flooding and reduce its impact.

Learning Journey

<u>Prior Learning</u>: Students should already be familiar with a lot of the specialist language from their year 7 unit on rivers and familiar with erosional processes (solution, hydraulic action, abrasion and attrition), transportational processes (traction, saltation, suspension and solution) and deposition. Having just studied weather, they should also be familiar with the language associated with the water cycle and have the literacy to enable them to scientifically discuss key aspects of the hydrological cycle and how this is linked to the movement of water through the drainage basin and possible implications for flood events.

			Learning Sequer	nce			Endpoint
Main learning Steps	Students consider why rivers are important and are introduced to the main river systems around the World.	Students will look at the key features of the drainage basin, building on what was learnt previously about the water cycle.	Students will review the core river processes of erosion, deposition and transportation.	Students will look at how river processes create waterfalls and gorges, and meanders and oxbow lakes.	Having completed the summative assessment for this unit, students will shift their attention to river flooding and its effects.	The unit ends with a consideration of factors that affect flood risk and what can be done to try and manage these factors.	Students can explain how river processes create different landforms. They also know why rivers flood & how to manage this.
Assessment			Students will be tasked for HW with review the key terms introduced so far and revising for a mini key term test next lesson.	The formative assessment for this unit will review a modelled answer of how meanders and oxbow lakes are formed. This will then be applied by students to explain the formation of waterfalls & gorges.	Summative assessment: Explain how river processes lead to the creation of waterfalls and gorges.		Students will have written a GCSE style 4 mark question explaining the formation of waterfalls and gorges.

<u>Where will we use these ideas again</u>? Core processes of erosion, transportation and deposition will be covered again as part of the year 9 curriculum in the unit on glaciation. This unit also provides a foundation for the GCSE Physical geography unit in paper 1 "UK Physical Landscapes."



Year group: 8 Subject: Geography Topic: How varied are Africa's Ecosystems?

Context: This short unit which sits at the end of year 8 introduces students to the basics of ecology, looking at some of the key characteristics of some of Africa's main Biomes and how these ecosystems function. It includes a look at the interactions between different species with Africa's Savana looking at how plants and animals are interdependent within the food chains and food webs which operate in this biome. It also looks at the value of rainforests, why they are threatened and what can be done to protect them. Finally, it explores the harsh conditions of Africa's deserts with a particular focus on how plants and animals have adapted to survive this hostile environment. There is an opportunity to supplement what is delivered in lessons with the BBC Earth series focused on Africa, a copy of which is held in humanities. This will lend additional interest and support in contextualising some of the content being delivered.

Learning Journey

<u>Prior Learning</u>: This is the first main unit students will have completed on ecology as part of the KS3 curriculum. They have touched on some of the environmental issues which can impact upon different environments and briefly considered links between ecology and hydrology but the content of this unit is largely new to students.

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Learning Sequence								
Students are briefly	Students are	Students carry out an in	Students will look at	Students will carry out	By the end of this unit			
introduced to ecology, what an ecosystem is	introduced to Africa's main Biomes,	depth study of Savanna grasslands with a	rainforest environments in the	a study into desert environments, focusing	students should be familiar with what an ecosystem is and the			
between biotic and abiotic features,	human and physical characteristics of Deserts, semi desert, savanna and rainforest.	climate, migration and food chains.	considering their key characteristics, threats to their survival and ways of managing these environments more sustainably.	ways in which different plants and animals have adapted to survive in these environments.	ways in which different ecosystems across the African continent operate.			
					This unit is assessed through a short key term test which focuses on specialist terminology developed through the unit.			
	introduced to ecology, what an ecosystem is and the differences between biotic and	Students are briefly introduced to ecology, what an ecosystem is and the differences between biotic and abiotic features, Students are introduced to Africa's main Biomes, considering the key human and physical characteristics of Deserts, semi desert,	Students are briefly introduced to ecology, what an ecosystem is and the differences between biotic and abiotic features, Students are introduced to Africa's main Biomes, considering the key human and physical characteristics of Deserts, semi desert, Students carry out an in depth study of Savanna grasslands with a particular focus on climate, migration and food chains.	Students are briefly introduced to ecology, what an ecosystem is and the differences between biotic and abiotic features, Deserts, semi desert, savanna and rainforest. Students carry out an in depth study of Savanna grasslands with a particular focus on climate, migration and food chains. Students will look at rainforest environments in the African continent, considering their key characteristics, threats to their survival and ways of managing these environments	Students are briefly introduced to ecology, what an ecosystem is and the differences between biotic and abiotic features, Deserts, semi desert, savanna and rainforest. Students carry out an in depth study of Savanna grasslands with a particular focus on climate, migration and food chains. Students will look at rainforest a study into desert environments in the African continent, considering their key characteristics, threats to their survival and ways of managing these environments.			

Where will we use these ideas again? Students will briefly touch on ecology in year 9 in both units on glaciation and thinking about geographical futures. As part of the GCSE studies, students will also have to study The Living World" as part of paper 1 which explores themes from this unit in much more depth, with a particular focus on rainforests and hot desert environments.