CORE KNOWLEDGE

What I will know and understand by the end of Year 12.

	This year in Geography we will be learning:	This links to:	Key vocabulary:
1	**The Concept of Hazards and Earth Structure and Tectonic Theory** • We will study different populations perceptions of and responses to potential hazards. • We will learn about the Earth's structure and how this affects processes on the Earth's surface and the hazards this creates.	You will consider how theory of geophysical processes studied at GCSE can be developed in more detail.	• Geophysical • Atmospheric • Hydrological • Resilience • Risk • Park Model • Core • Mantle • Crust • Lithosphere • Asthenosphere
2	**Volcanic Hazards and Seismic Hazards** • We will study the distribution, magnitude and frequency of Volcanic Hazards and how risk can be managed • Through looking at a HIC and LIC case study we will consider effects and responses of Volcanic Hazards. • We will study the distribution, magnitude and frequency of Seismic Hazards and how risk can be managed • Through looking at a HIC and LIC case study we will consider effects and responses of Seismic Hazards.	You will develop analytical skills needed to compare and contrast different impacts and responses to hazards that are summarised through data.	• Destructive • Constructive • Conservative • Fold Mountains • Ocean Trenches • Island Arcs • Hotspots • Magma Plumes • Tephra • Pyroclasticity • Seismicity • Richter and Mercalli Scale
3	**Storm Hazards and Fires in Nature** • We will study the nature of tropical storms and their underlying causes as well as their magnitude, frequency and distribution. • Through looking at a HIC and LIC case study we will consider the effects and responses of Storm Hazards. • We will consider the nature and causes of Wildfires and through a case study we will consider impacts and responses: preparation, mitigation and prevention.	You will develop analytical skills needed to compare and contrast different impacts and responses to hazards that are summarised through data. In addition to this you will develop extended writing techniques.	• Prediction • Protection • Planning • Preparation • Magnitude • Hurricane • Tropical Storm • Tropics • GAC • Pyrophoric • Education
4	**Multi Hazardous Environments** • We will study a LIC and HIC case study of Multi hazardous environments and consider the differing effects and responses to them. • Through summarising causes and responses to hazards we will develop skills and techniques needed for exam style questions.	Maps and stimulus will be used to draw on your own knowledge of levels of development and how this impacts on effects and responses to hazards.	• Frequency • Magnitude • Distribution • Development • Education • Causes • Effects • Responses • Engineering • HIC/LIC
5	**CUE: Megacities** • We will consider the nature and distribution of Megacities and the characteristics of them. • We will understand the physical and human factors affecting urban forms and the spatial patterns of land use and the factors affecting them.	You will draw on prior learning of cities from around the world and their characteristics in addition to knowledge of physical and human factors that affect settlement.	• Megacity • World City • Millionaire City • Governance • Urban Form • Land Use • Physical and Human Features
6	**CUE: Urban Climate** • We will study the impact of urban forms on local climate and weather including the UHI and its effects on populations and the landscape. • Through the UHI we will consider the issues of pollution and the policies that have been attempted in the developed and developing world to combat these issues.	You will link to knowledge of global warming and the scientific processes involved in climate and its changing nature in an urbanised world.	• Climate • UHI • Precipitation • Fog • Thunderstorm • Temperature • Air Quality • Pollution • Urban Boundary Layer

Target Grade		AP1		AP2		AP3	

CORE KNOWLEDGE

What I will know and understand by the end of Year 13.

This year in Geography we will be learning:		This links to:	Key vocabulary:	
1	**Water and Carbon Cycles as Natural Systems and The Water Cycle** • We will study how both water and carbon can be looked at through a systems approach and how these systems can be classified based on their outputs and feedbacks. • Through studying the water cycle as a system we will consider processes driving changes in water stores over time and space. • We will look at the water balance and changes in runoff variation in order to understand how drainage basins are open systems.	A systems approach is looked at in all modules in terms of both human and natural systems. You will also look at flooding and how this is a hazard.	• Atmosphere • Hydrosphere • Cryosphere • Biosphere • Lithosphere • inputs/Outputs/Flows	• Isolated • Open and closed system • Subsystem • Feedback • Dynamic Equilibrium
2	**The Water Cycle** • We will study flood hydrographs and how they can be affected by both Physical and Human factors. • Through the use of case studies we will consider how the water cycle can be affected by both natural variations and human actions.	Hydrogrographs in urban areas as studied in CUE, this is also a skill focused on in GCSE. You will also link to your knowledge of wildfires and hazard events linked to climate.	• Oceanic • Cryospheric • Terrestrial • Atmospheric • Hydrograph • Abstraction	• Sublimation • Condensation • Precipitation • Interception • Runoff • Evapotranspiration
3	**The Carbon Cycle** • We will study the global distribution of carbon and the factors that cause change in the magnitude of these stores. • By looking at the carbon cycle on a range of scales we will consider how the carbon cycle changes over time, through both human and physical processes. • We will also consider the impacts of the changing carbon cycle on land, oceans and atmosphere.	You will link to prior GCSE knowledge of carbon from GCSE level science, in combination with human processes of urbanisation and development focused on CUE, Changing Places and the management of these processes in Global Governance.	• Terrestrial • Fluxes • Fast/slow cycles • Organic/Inorganic	• Decomposition • Combustion • Photosynthesis • Carbon Sequestration • Deforestation
4	**Water, Carbon and Climate** • We will consider the key roles of carbon and water in supporting life on Earth and the role of feedbacks in this. • We will also study human interventions in the carbon cycle designed to influence carbon transfers including Carbon Capture and Storage and afforestation.	You will link to prior knowledge of climate change and global warming as well as governance in terms of hazard management of risk management and resilience.	• Greenhouse Effect • Anthropogenic • CO2 • Methane	• Innovation • Governance • Protocol • TRF • Climate Change
5	**Water, Carbon and Case Studies** • We will focus on the Tropical Rainforest and how both natural and human processes that are taking place that are impacting on both the water and Carbon Cycles. • We will then look at The River Exe to understand water and carbon on a local scale.	You will look at the interactions between systems and subsystems as well as human and physical processes operating in these areas.	• TRF • Interaction • Malaysia • Transmigration • Feedback	• Wetlands • Restoration • Peat • Aquifers • Carbon sinks and sources
6	**Revision and Exam Technique** • We will practice exam techniques including interpretation and analysis and long and short answer questions. • We will also revise exam command words and the correct way to structure an answer.	You will recap and consolidate exam technique as practiced throughout your two years of study of GCE Geography.	• Suggest • Explain • Examine • Analyse	• Assess • Evaluate • Justify • To what extent

Target Grade		AP1		AP2		AP3	