

Key Stage 4 Overview

	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Year 9	<p>University Challenge:</p> <p>Context: Hazardous Earth pt1</p> <ul style="list-style-type: none"> How does the world's climate system function, why does it change and how can this be hazardous for people? How are extreme weather events increasingly hazardous for people? <p>Skills:</p> <ul style="list-style-type: none"> Use and interpretation of climate graphs Use and interpretation of line graphs/ bar charts showing climate change Use and interpretation of temperature and sea-level projection graphs to 2100 Use of GIS to track the movement of tropical cyclones Explaining weather and storm-surge data to calculate Saffir-Simpson magnitude Analysing the use of social media sources, satellite images and socio-economic data to assess impact. 	<p>University Challenge:</p> <p>Context: Hazardous Earth pt2</p> <ul style="list-style-type: none"> Why do the causes and impacts of tectonic activity and management of tectonic hazards vary with location? <p>Skills:</p> <ul style="list-style-type: none"> Interpreting a cross-section of the Earth Use and interpretation of world map showing the distribution of plate boundaries and plates Explaining the impact the distribution of plate boundaries and plates have Comparing magnitudes of earthquake events by using the Richter Scale Analysing the use of social media sources, satellite images and socio-economic data to assess impact. 	<p>University Challenge:</p> <p>Context: Development Dynamics</p> <ul style="list-style-type: none"> What is the scale of global inequality and how can it be reduced? How is ONE of the world's emerging countries managing to develop? <p>Skills:</p> <ul style="list-style-type: none"> Comparing the relative ranking of countries using single versus composite (indices) development measures Interpreting population pyramid graphs for countries at different levels of development Explaining how population has an impact on a country Analyse global inequality by using income quintiles Profiling a chosen country by using numerical economic data Map proportional flow-line maps to visualise trade patterns and flows Analyse socio-economic data to calculate difference from the mean, for core and periphery regions. 	<p>University Challenge:</p> <p>Context: Challenges of an Urbanising world</p> <ul style="list-style-type: none"> What are the causes and challenges of rapid urban change? Why does quality of life vary so much within ONE megacity in a developing country <p>Skills:</p> <ul style="list-style-type: none"> Interpretation of line graphs and calculating of rate of change/annual or decadal percentage of growth Analysing satellite images to identify different land use zones in urban areas Investigate spatial growth by using GIS/satellite images, historic images and maps Judging the scale of variations in quality of life by using quantitative and qualitative information. 	<p>University Challenge:</p> <p>Context: The UK's evolving physical landscape</p> <ul style="list-style-type: none"> Why does the physical landscape of the UK vary from place to place? Why is there a variety of distinctive coastal landscapes in the UK and what are the processes that shape them? What are the challenges for coastal landscapes and communities and why is there conflict? <p>Skills:</p> <ul style="list-style-type: none"> Analysing photographs of common glacial, fluvial and coastal landscapes and features Locating key physical features (uplands, lowland basins, rivers) on outline UK maps Map skills Designing questions that are capable of being investigated through fieldwork Calculating mean rates of erosion using a multi-year data set. Explaining the results Analysing simple cost-benefit to investigate the impact of policy decision 	<p>University Challenge:</p> <p>Context: The UK's evolving physical landscape</p> <ul style="list-style-type: none"> Why is there a variety of river landscapes in the UK and what are the processes that shape them? What are the challenges for river landscapes, people and property and how can they be managed? <p>Skills:</p> <ul style="list-style-type: none"> Designing questions that are capable of being investigated through fieldwork Map skills – cross-section from contour lines Drawing simple storm hydrographs using rainfall and discharge data Analysing simple cost-benefit to investigate river management options Analysing the impact of policy decisions using OS maps and GIS