**Landscapes of the UK – Question 1 - Paper 1 – PLC’s**

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| Key ideas and content | **R** | **A** | **G** | Comment/Exam question |
| **Key idea 1 - The physical landscapes of the UK have distinctive characteristics:** |  |  |  |  |
| I can describe the **Distribution** of **Lowland areas** |  |  |  |  |
| I can describe the **Distribution** of **Upland areas** |  |  |  |  |
| I can describe the **Distribution** of **Glaciated landscapes** |  |  |  |  |
| **Key idea 2 - Characteristics of these landscapes:** |  |  |  |  |
| Upland areas – I can describe the **Geology, Climate & Human Activity** |  |  |  |  |
| Lowland Areas – I can describe the **Geology, Climate & Human Activity** |  |  |  |  |
| Glaciated areas – I can describe the **Geology, Climate & Human Activity** |  |  |  |  |
| **Key idea 3 - Geomorphic processes create distinctive landscapes** |  |  |  |  |
| I can **describe** and **explain** the 3 types of **Weathering: Mechanical, Chemical& Biological** |  |  |  |  |
| I can **describe** and **explain 2** types of **Mass Movement – Sliding and Slumping** |  |  |  |  |
| I can **describe** what **Erosion** is and how the processes of erosion operate: **Abrasion, Hydraulic Action, Attrition & Solution** |  |  |  |  |
| I can **describe** what **Transportation** is and how the processes of **Transportation** operate: **Traction, saltation, Suspension & Solution** |  |  |  |  |
| I know what **Deposition** is and how it works |  |  |  |  |
| **Key idea 4**  **How rivers create landforms that change from source mouth in a drainage basin** |  |  |  |  |
| I can **describe** and **explain** how a **V–shaped** valley forms |  |  |  |  |
| I can **describe** and **explain** how a **Waterfall** forms |  |  |  |  |
| I can **describe** and **explain** how a **Gorge** forms |  |  |  |  |
| I can **describe** and **explain** how a **Meander** |  |  |  |  |
| I can **describe** and **explain** how an **Ox–Bow** lake forms |  |  |  |  |
| I can **describe** and **explain** how a **Flood plain** forms |  |  |  |  |
| I can **describe** and **explain** how a **Levee** forms |  |  |  |  |
| **Key idea 5**  **Landforms within the Coastal landscape** |  |  |  |  |
| I can **describe** and **explain** how a **Headland** and **Bay** form |  |  |  |  |
| I can **describe** and **explain** how a **Cave, Arch, Stack & Stump form at a Headland** |  |  |  |  |
| I can **describe** and **explain** how a **Beach** forms |  |  |  |  |
| I can **describe** and **explain** how a **Spit** forms |  |  |  |  |
| **Key idea 6 – *Case Studies***  **Landscapes are dynamic and differ depending on their Geology, Climate & Human activity** |  |  |  |  |
| **Case Study 1 - UK River Basin** |  |  |  |  |
| I can **describe** and **explain** how **geomorphic processes** operate at **different scales,** being **influenced by Geology and Climate** |  |  |  |  |
| I can **describe** landform features associated with the case study |  |  |  |  |
| I can **describe** and **explain** how human activity, including management, works in combination with geomorphic processes to impact the landscape |  |  |  |  |
| **Case study 2 – UK Coastal landscape** |  |  |  |  |
| I can **describe** and **explain** how **geomorphic processes** operate at **different scales,** being **influenced by Geology and Climate** |  |  |  |  |
| I can **describe** landform features associated with the case study |  |  |  |  |
| I can **describe** and **explain** how human activity, including management, works in combination with geomorphic processes to impact the landscape |  |  |  |  |

**People of the UK – Question 2 - Paper 1 – PLC’s**

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| Key ideas and content | **R** | **A** | **G** | **Comment/Exam question** |
| **Key idea 1 – The UK is connected to many other countries and places** |  |  |  |  |
| I can **describe** what the word **trade** means |  |  |  |  |
| I can **describe** who the UK trades with ***(Our major trading partners)* EU - Especially Germany, France & USA, China etc.** |  |  |  |  |
| I can **describe** what the word **export** means |  |  |  |  |
| I can **describe** what the UK’s main **exports are** and who we **export to** |  |  |  |  |
| I can **describe** what the word **import** means |  |  |  |  |
| I can **describe** what the UK’s main **imports are** and who we **import from** |  |  |  |  |
| **Key idea 2 – The UK is a diverse and unequal society which has Geographical patterns** |  |  |  |  |
| I can **describe and explain** UK patterns of **Employment** |  |  |  |  |
| I can **describe and explain** UK patterns of **Average Income** |  |  |  |  |
| I can **describe and explain** UK patterns of **Life expectancy** |  |  |  |  |
| I can **describe and explain** UK patterns of **Educational Attainment** |  |  |  |  |
| I can **describe and explain** UK patterns of **Ethnicity** |  |  |  |  |
| I can **describe and explain** UK patterns of **Access to Broadband** |  |  |  |  |
| **Key idea 3 – There are different *causes and consequences* of development in the UK** |  |  |  |  |
| I can **describe** the uneven level of development in the UK -**Location – North / South divide – South East wealth** |  |  |  |  |
| I can **describe** the uneven level of development in the UK –  **Economic change** |  |  |  |  |
| I can **describe** the uneven level of development in the UK –  **Infrastructure - HS2 railway** |  |  |  |  |
| I can **describe** the uneven level of development in the UK –  **Government policy** |  |  |  |  |
| ***CASE STUDY SALFORD*** |  |  |  |  |
| ***Decline***  ***Growth*** |  |  |  |  |
| **Key idea 4 – The UK’s Population is changing** |  |  |  |  |
| I **know** what the **Demographic Transition model** (DTM) is |  |  |  |  |
| I can **describe** the **UK population 1900 to present day** |  |  |  |  |
| I can **use the DTM** and place the UK on different stages at different times from 1900 onwards |  |  |  |  |
| I can **describe and explain** the **causes of an Ageing population** |  |  |  |  |
| I can **describe and explain** the **effects of an Ageing population** |  |  |  |  |
| I can **describe and explain** the **responses to an Ageing population** |  |  |  |  |
| I **know** what **immigration** is |  |  |  |  |
| I **know** what **Push and Pull factors** are |  |  |  |  |
| **I can describe** **flows** of **immigration** into the UK in the 21st Century (2000 onwards) – **EU migrants & Refugees** |  |  |  |  |
| I **can discuss** the **positive** and **negative** **Social** and **Economic** aspects of this immigration |  |  |  |  |
| **Key idea 5 – There are causes for and consequences of Urban trends in the UK** |  |  |  |  |
| **I know what Suburbanisation is** |  |  |  |  |
| I can **describe and explain** the **causes of Suburbanisation** |  |  |  |  |
| I can **describe** the **Social** aspects of **Suburbanisation** |  |  |  |  |
| I can **describe** the **Economic** aspects of **Suburbanisation** |  |  |  |  |
| I can **describe** the **Environmental** aspects of **Suburbanisation** |  |  |  |  |
| **I know what Counter urbanisation is** |  |  |  |  |
| I can **describe and explain** the **causes of Counter urbanisation** |  |  |  |  |
| I can **describe** the **Social** aspects of **Counter** **urbanisation** |  |  |  |  |
| I can **describe** the **Economic** aspects of **Counter urbanisation** |  |  |  |  |
| I can **describe** the **Environmental** aspects of **Counter urbanisation** |  |  |  |  |
| **I know what Re urbanisation is** |  |  |  |  |
| I can **describe and explain** the **causes of Re urbanisation** |  |  |  |  |
| I can **describe and explain** the **causes of Re urbanisation** |  |  |  |  |
| I can **describe** the **Social** aspects of **Re urbanisation** |  |  |  |  |
| I can **describe** the **Economic** aspects of **Re urbanisation** |  |  |  |  |
| ***CASE STUDY - LEEDS*** |  |  |  |  |
| I can **describe and explain** the **influence** of **Leeds** within the **West Yorkshire region** |  |  |  |  |
| I can **describe and explain** the **influence** of **Leeds** within the **UK** |  |  |  |  |
| I can **describe and explain** the **influence** of **Leeds** within the **Wider world** |  |  |  |  |
| I can **describe and explain** the impact of **national migration** on Leeds growth and character |  |  |  |  |
| I can **describe and explain** the impact of **international migration** on Leeds growth and character |  |  |  |  |
| I can **describe and explain** the **way of life** in Leeds including **Culture** |  |  |  |  |
| I can **describe and explain** the **way of life** in Leeds including **Ethnicity** |  |  |  |  |
| I can **describe and explain** the **way of life** in Leeds including **Housing** |  |  |  |  |
| I can **describe and explain** the **way of life** in Leeds including **Leisure** |  |  |  |  |
| I can **describe and explain** the **way of life** in Leeds including **Consumption** |  |  |  |  |
| I can **describe and explain** the **challenges** facing Leeds including **Housing availability** |  |  |  |  |
| I can **describe and explain** the **challenges** facing Leeds including **Transport provision** |  |  |  |  |
| I can **describe and explain** the **challenges** facing Leeds including **Waste management** |  |  |  |  |
| **Leeds South Bank a Sustainable development** |  |  |  |  |

**Environmental Challenges of the UK – Question 3 - Paper 1 – PLC’s**

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| Key ideas and content | **R** | **A** | **G** | Comment/Exam question |
| **Key idea 1 – The UK has a unique climate for its latitude which can create extreme weather conditions** |  |  |  |  |
| I know what an **air mass** is |  |  |  |  |
| I know what the **North Atlantic drift** is |  |  |  |  |
| I know what a **continent / land mass** is |  |  |  |  |
| I **can describe and explain** how land and water heat up and cool down |  |  |  |  |
| I **can describe and explain** how **Air masses, the North Atlantic drift and land mass influence weather in the UK** |  |  |  |  |
| I know what **precipitation** is |  |  |  |  |
| I **can describe and explain** how air masses cause **extremes of Wind** in the UK |  |  |  |  |
| I **can describe and explain** how air masses cause **extremes of Precipitation** in the UK |  |  |  |  |
| I **can describe and explain** how air masses cause **extremes of Temperature** in the UK |  |  |  |  |
| **Key idea 2 – Extreme flood hazard events are becoming more common place in the UK** |  |  |  |  |
| **CASE STUDY – Flood event – Caused by extreme weather**  ***Somerset levels*** |  |  |  |  |
| **I know** where the **Somerset levels** are |  |  |  |  |
| **I know** why the **landscape is unique** |  |  |  |  |
| Ican **describe** the **Physical causes** of the event |  |  |  |  |
| I can **describe** the **Human causes** of the event |  |  |  |  |
| **I** can **describe** and **explain** the effects of the flood upon the **Social (People), Economic (Money) and Environmental (the Landscape) aspects** |  |  |  |  |
| **I** can **describe** and **explain** the **responses and management** to the flood event |  |  |  |  |
| **Key idea 3 - Humans use, modify and change ecosystems and environments to obtain Food, Energy and Water** |  |  |  |  |
| I **know** what an **ecosystem** is |  |  |  |  |
| I can **explain** how the environment / ecosystems are modified / changed by **Wind Farms to provide energy** |  |  |  |  |
| I can **explain** how the environment / ecosystems are modified / changed by **Fracking to provide energy** |  |  |  |  |
| I canexplain how the environment / ecosystems are modified / changed by **reservoirs and water transfer schemes** to provide **drinking water** |  |  |  |  |
| I can **explain** how the environment / ecosystems are modified / changed by **the mechanisation of farming to produce food** |  |  |  |  |
| I can **explain** how the environment / ecosystems are modified / changed by **commercial fishing to produce food** |  |  |  |  |
| **Key idea 4 – There are a range of energy sources available to the UK** |  |  |  |  |
| **I know** what **renewable energy resources** are and can **name some** |  |  |  |  |
| **I know** what **non - renewable energy resources** are and can **name some** |  |  |  |  |
| **I know** what the **energy mix is** |  |  |  |  |
| I can **describe and explain the contribution of renewable and non-renewable energy sources to energy supply in the UK** |  |  |  |  |
| **Key idea 5 – Energy in the UK is affected by a number of factors and requires careful management and consideration of future supplies** |  |  |  |  |
| I **know** what **energy demand** is |  |  |  |  |
| I know what **energy supply** is |  |  |  |  |
| I can **describe and explain** the **change in patterns in energy demand and supply from the 1950’s to present day caused by Government decisions** |  |  |  |  |
| I can **describe and explain** the **change in patterns in energy demand and supply from the 1950’s to present day caused by International organisations** |  |  |  |  |
| I **know** what the word **sustainable** means |  |  |  |  |
| I can **describe and explain** strategies for **sustainable energy use** |  |  |  |  |
| I can **describe and explain** these strategies and their **management** at a **local** and **national** level and describe their level of **success** |  |  |  |  |
| I can **describe and explain** the **development of renewable energy in the UK** |  |  |  |  |
| I can **describe and explain** why **renewable energy should contribute to the UK’s energy supply** |  |  |  |  |
| I can **describe and explain** the **Economic factors affecting UK energy supply in the future** |  |  |  |  |
| I can **describe and explain** the **Political factors affecting UK energy supply in the future** |  |  |  |  |
| I can **describe and explain** the **Environmental factors affecting UK energy supply in the future** |  |  |  |  |

**Ecosystems of the Planet – Question 1 - Paper 2 – PLC’s**

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| Key ideas and content | **R** | **A** | **G** | **Comment/Exam question** |
| **Key idea 1 - Ecosystems consist of interdependent components:** |  |  |  |  |
| I can **describe** and **explain** how Ecosystems have Abiotic **(Non-Living)** components such as – Weather, Climate & Soil. |  |  |  |  |
| I can **describe** and **explain** how Ecosystems have Biotic **(Living)** components such as Plants, Animals & Humans |  |  |  |  |
| I can **describe** and **explain** how Ecosystems are interdependent **(all items linked)** |  |  |  |  |
| **I know** how a **food chain** works – **plants to herbivores to carnivores to omnivores to decomposers** |  |  |  |  |
| **Key idea 2**  **Ecosystems have distinct distributions and characteristics** |  |  |  |  |
| I can **describe** the **global distribution** **(Location)** of **Arctic Polar** regions & have an overview of **Climate** & **Flora & Fauna** in these Ecosystems. |  |  |  |  |
| I can **describe** the **global distribution** **(Location)** of **Antarctic Polar** regions& have an overview of **Climate** & **Flora & Fauna** in these Ecosystems. |  |  |  |  |
| I can **describe** the **global distribution** **(Location)** of **Coral Reefs** & have an overview of **Climate** & **Flora & Fauna** in these Ecosystems. |  |  |  |  |
| I can **describe** the **global distribution** **(Location)** of **Grasslands** & have an overview of **Climate** & **Flora & Fauna** in these Ecosystems. |  |  |  |  |
| I can **describe** the **global distribution** **(Location)** of **Temperate Forests** & have an overview of **Climate** & **Flora & Fauna** in these Ecosystems. |  |  |  |  |
| I can **describe** the **global distribution** **(Location)** of **Tropical Rainforests** & have an overview of **Climate** & **Flora & Fauna** in these Ecosystems. |  |  |  |  |
| I can **describe** the **global distribution** **(Location)** of **Hot Deserts** & have an overview of **Climate** & **Flora & Fauna** in these Ecosystems. |  |  |  |  |
| **Key idea 3 - There are major tropical rainforests in the world** |  |  |  |  |
| I can **describe**, **explain** and **identify** the **global distribution (Location)** of **Tropical Rainforests** including the **Amazon, Central American, Congo River Basin, South East Asian and Australasian** |  |  |  |  |
| **Key idea 4 - There are major Coral reefs in the world** |  |  |  |  |
| I can **describe**, **explain** and **identify** the **global distribution** **(Location)** of **Warm water coral reefs** including The **Great Barrier** reef, **Red Sea** Coral reef, **New Caledonia** coral reef, the **Mesoamerican Barrier** reef, **Florida** reef and **Andros** Coral reef |  |  |  |  |
| **Key idea 5**  **Biodiverse ecosystems are under threat from Human activity** |  |  |  |  |
| I can **describe** and **explain** the process of **Nutrient recycling** within a **Tropical rainforest (how plants feed herbivores, then feed carnivores, then omnivores (BIOMASS) then dead matter (LITTER) decay into soil /water and next year plants are given nutrients to start again )** |  |  |  |  |
| I can **describe** and **explain** the process of how **Water Cycles** **(the water cycle)** within a **Tropical rainforest** |  |  |  |  |
| I can **describe** and **explain** the process of **Nutrient recycling** within a **Coral Reef** **(how plants feed herbivores, then feed carnivores, then omnivores (BIOMASS) then dead matter (LITTER) decay into soil /water and next year plants are given nutrients to start again )** |  |  |  |  |
| **Tropical Rainforest Case Study**  I can **describe** and **explain** the **Interdependence** **(all items linked)** between **climate, soil, water, flora, fauna and humans in Rainforests**  I can **describe** and **explain** the **value** to **humans** and the **planet** of Rainforests.  I can **describe** and **explain** the **Threats** to the Rainforest environment and ways to **manage the threats** |  |  |  |  |
| **Coral Reef Case Study**  I can **describe** and **explain** the **Interdependence** **(all items linked)** between **climate, soil, water, flora, fauna and humans in Coral reefs**  I can **describe** and **explain** the **value** to **humans** and the **planet** of Coral reefs.  I can **describe** and **explain** the **Threats** to the Coral reef environment and ways to **manage the threats** |  |  |  |  |

**People of the Planet – Question 2 - Paper 2 – PLC’s**

**LEDC’s – Less Economically Developed Countries X – not to be used**

**MEDC’s- More Economically Developed Countries X – not to be used**

**AC’s – Advanced Countries – To be used now**

**EDC’s – Emerging and Developing Country – To be used now**

**LIDC’s – Low Income Developing Country – To be used now**

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| Key ideas and content | **R** | **A** | **G** | Comment/Exam question |
| **Key idea 1 – The world is developing unevenly** |  |  |  |  |
| **I know** what the word **Social means** |  |  |  |  |
| **I know** what the word **Economic means** |  |  |  |  |
| **I know** what the word **Environmental means** |  |  |  |  |
| **I know** what the word **Sustainable means** |  |  |  |  |
| **I know** what the word **Development means** |  |  |  |  |
| I can **describe and know the meaning** of the phrase **Social development** |  |  |  |  |
| I can **describe and know the meaning** of the phrase **Economic development** |  |  |  |  |
| I can **describe and know the meaning** of the phrase **Environmental development** |  |  |  |  |
| I can **describe and know the meaning** of the phrase **Sustainable development** |  |  |  |  |
| I **know** what the **phrase** **Development Indicator** means |  |  |  |  |
| I can **describe and explain** what **Social measures of development** are and give examples: |  |  |  |  |
| **I know what the Birth Rate is**  **I know what the Death rate is**  **I know what Infant mortality is**  **I know what Life expectancy is**  **I know what Access to education is**  **I know what the Literacy rate is**  **I know what Doctors per 1000 is**  **I know what Quality of life is** |  |  |  |  |
| I can **describe and explain** what **Economic measures of development** are and give examples: |  |  |  |  |
| **I know what the GDP Per Capita**  **I know what the GNI per Capita**  **I know what the Absolute poverty**  **I know what the Relative poverty**  **I know what the Employment type**  **I know what the Standard of Living** |  |  |  |  |
| I can **discuss the advantages and disadvantages** of these measures |  |  |  |  |
| **I know** what the **HDI (Human Development Index) is, what it uses as a measure and the significance of a score between 0 and 1** |  |  |  |  |
| I **know** what **the four employment sectors** are and what they produce: **Primary, Secondary, Tertiary & Quaternary** |  |  |  |  |
| **Key idea 2 – There are many causes of uneven development** |  |  |  |  |
| **I can discuss the consequences of uneven development:**  **Wealth**  **Development gap**  **Health**  **Standards of living**  **Education** |  |  |  |  |
| On a **map** I could **identify** the **pattern** of **LIDC’s, EDC’s, or AC’s** |  |  |  |  |
| I can **describe and explain** the **physical causes of** uneven development **i.e.**  **Climate**  **Natural Resources**  **Natural Hazards**  **Location and Terrain** |  |  |  |  |
| I can **describe and explain** the **Human causes of** uneven development **i.e.**  **Politics**  **Culture**  **Technology**  **Healthcare**  **History** |  |  |  |  |
| **I know** what **colonialism** is |  |  |  |  |
| I can **discuss and explain** the **effects of colonialism on trade** |  |  |  |  |
| I can **describe and explain** the **exploitation of natural resources** |  |  |  |  |
| I **know** what **Aid** is |  |  |  |  |
| I **know** what an **NGO (Non-Government Organisation)** is and can give an **example** |  |  |  |  |
| I **know** what the **4 different types of Aid** are and describe how they **help and hinder** development:  **Official government aid**  **Multi lateral**  **Bi Lateral**  **Voluntary aid** |  |  |  |  |
| I **know** what **Sustainable aid** is and can give an example i.e. **Water Aid** |  |  |  |  |
| **Key idea 3 – Many factors contribute to a country’s economic development** |  |  |  |  |
| ***CASE STUDY of an LIDC - INDIA*** |  |  |  |  |
| I can **describe Ethiopia’s:**  **Location**  **Landscape**  **Climate**  **Ecosystems**  **Natural resources** |  |  |  |  |
| I **can** discuss **India’s** **political** development |  |  |  |  |
| I **can** discuss **India’s Imports and Exports** |  |  |  |  |
| I **know** what a **TNC (Trans National company)/ MNC (Multinational company**) is |  |  |  |  |
| I can **discuss TNC’s who invest in India** and the **positive and negative** aspects of this activity |  |  |  |  |
| I can **discuss India’s population and employment structure** |  |  |  |  |
| I can **discuss Social factors in India**  **Education**  **Health** |  |  |  |  |
| **I can discuss and explain one Aid project - Toilets and clean water in India** |  |  |  |  |
| I **know** what **Rostow’s** model is |  |  |  |  |
| I can **apply** the **model to** my **case study** |  |  |  |  |
| **Key idea 4 – The majority of the world’s population now live in Urban areas** |  |  |  |  |
| I know that **urbanisation** is |  |  |  |  |
| I **know** that **Rural to Urban Migration** is |  |  |  |  |
| I **know** that **Internal growth / Natural growth** is |  |  |  |  |
| I know what a **settlement hierarchy** is |  |  |  |  |
| A **city** is |  |  |  |  |
| A **mega city** is |  |  |  |  |
| A **world city** is |  |  |  |  |
| I can **describe and explain** how the **location** of **megacities** has **changed over time – *Originally most were in rich nations but today most in poorer nations why?*** |  |  |  |  |
| I can **describe and explain** the **global pattern of Urban growth** |  |  |  |  |
| **Key idea 5 – There are causes and consequences of rapid urbanisation in LIDC’s** |  |  |  |  |
| I can **describe** the **causes of rapid urban growth such as:**  **Rural to Urban Migration**  **Push and Pull factors**  **Internal /Natural growth** |  |  |  |  |
| I can **describe the consequences of rapid urban growth**  **Socially - few people have electricity, sanitation, clean water, diseases, crime, slums rubbish, /life expectancy lowers**  **Economically – corruption, sometimes investment from World bank to improve conditions**  **Environmentally - traffic congestion, waste and rubbish** |  |  |  |  |
| **Key idea 6 – Cities have distinct challenges and ways of life, influenced by its people and culture** |  |  |  |  |
| **CASE STUDY**  **Rosario – Argentina - A major city in an? EDC** |  |  |  |  |
| **Location and geographical importance**  **Landscape**  **Climate**  **Ecosystems**  **Natural resources**  **Transport** |  |  |  |  |
| **Migration National and International – impact on growth and character** |  |  |  |  |
| I can **discuss the ways of life** for people in **Rosario**  **Culture**  **Ethnicity**  **Housing**  **Leisure**  **Consumption** |  |  |  |  |
| I can **discuss** the **challenges** these people face from **Urban Change**  **Housing availability**  **Transport**  **Waste management** |  |  |  |  |
| I can **discuss** what is **being done** about these **challenges** |  |  |  |  |
| I can **discuss** the possibilities for **Rosario** having a **Sustainable future** |  |  |  |  |

**Environmental threats to our Planet – Question 3 - Paper 2 – PLC’s**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Key ideas and content | **R** | **A** | **G** | Comment/Exam question |
| **Key idea 1 – The climate has changed from the start of the quaternary period** |  |  |  |  |
| I **know** what the **quaternary period** is |  |  |  |  |
| I **know** what a **glacial period** is |  |  |  |  |
| I **know** what and **interglacial period** is |  |  |  |  |
| **I know what the Little Ice Age was** |  |  |  |  |
| **I know what the Medieval warming Period (MWP) was** |  |  |  |  |
| **I know about current Global Warming** |  |  |  |  |
| **I can describe and explain 4 pieces** of **evidence** for climate change  **Global Temperature data**  **Ice cores**  **Tree rings**  **Paintings and diaries** |  |  |  |  |
| **Key idea 2 – There are a number of possible causes of Climate Change** |  |  |  |  |
| I **can describe** the theories for the **Natural causes of climate change**  **Changes in earth’s orbit**  **Volcanic activity**  **Variation in energy from the sun** |  |  |  |  |
| I **know** **enhanced Global warming** is |  |  |  |  |
| I **can describe** the **Human actions that are causing of climate change**  **Burning Fossil Fuels**  **Deforestation**  **Pollution from Industry**  **Pollution from vehicles**  **All these emit gasses in to the atmosphere** |  |  |  |  |
| I **can** identify the **gasses** that cause **Global warming** and identify their **sources** |  |  |  |  |
| **Key idea 3 – Climate change has consequences** |  |  |  |  |
| I **can** **describe** the **Social consequences** of **Climate change** |  |  |  |  |
| I **can** **describe** the **Economic consequences** of **Climate change** |  |  |  |  |
| I **can** **describe** the **Environmental consequences** of **Climate change** |  |  |  |  |
| I **can describe** how **Sea level** rise is a serious consequence of climate change using **examples** |  |  |  |  |
| I **can describe** how **Extreme weather** is a serious consequence of climate change using **examples** |  |  |  |  |
| I **can describe** how **Drought** is a serious consequence of climate change using **examples** |  |  |  |  |
| **Key idea 4 – The global circulation of the atmosphere controls weather and climate** |  |  |  |  |
| **I can describe and locate the major climatic regions of the world** |  |  |  |  |
| I **know** what the **Global pattern of air circulation** is |  |  |  |  |
| I **know** what the **3 main air cells are, where** they happen **and what** happens in them  **Hadley**  **Ferrel**  **Polar** |  |  |  |  |
| I **know** what **High** and **Low pressure** is |  |  |  |  |
| I know some **examples** of **extremes of weather**, **Coldest, Hottest, Driest, Wettest and Windiest** places on Earth |  |  |  |  |
| **Key idea 5 – Extreme weather conditions cause different natural weather hazards** |  |  |  |  |
| I **know what** a **Tropical storm** is |  |  |  |  |
| I **know where** Tropical storms **occur** |  |  |  |  |
| I **know what** **causes** a Tropical Storm |  |  |  |  |
| I **know how often** they **occur** |  |  |  |  |
| I **know** their level of **frequency is increasing** |  |  |  |  |
| I **know what** a **Drought** is |  |  |  |  |
| I **know where** Droughts **occur** |  |  |  |  |
| I **know what** **causes** a Drought |  |  |  |  |
| I **know how often** they **occur** |  |  |  |  |
| I **know** their level of **frequency is increasing** |  |  |  |  |
| **Key idea 6 –Drought can be devastating for people and the environment** |  |  |  |  |
| ***CASE STUDY of one Drought caused by El Nino /La Nina*** |  |  |  |  |
| I **know** what the **normal conditions** of the **Pacific Ocean** are |  |  |  |  |
| I **know** what happens during **El Nino** |  |  |  |  |
| I **know** what happens during **La Nina** |  |  |  |  |
| ***Drought example - Australia – the Big Dry – 2002 -2009*** |  |  |  |  |
| **I know** what the **causes** were |  |  |  |  |
| I **know** what the **Social consequences** were |  |  |  |  |
| I **know** what the **Economic consequences** were |  |  |  |  |
| I **know** what the **Environmental consequences** were |  |  |  |  |
| I **know** what the **peoples responses** were and how they adapted |  |  |  |  |