The challenge of natural hazards

		☺	😐	☹	Revision undertaken
Natural hazards					
I can define a **natural hazard** and give some examples of the different types.					
I can explain the different factors that affect **risk**.					
Tectonic hazards					
I can describe the distribution of **earthquakes** and **volcanoes**.					
I explain the differences between **destructive, constructive** and **conservative** plate margins.					
I know the main features of an **earthquake** and two different ways of measuring earthquakes.					
Using named examples of a tectonic hazard in both rich and poor countries. I can: (1) Explain why the **tectonic hazard** happened there, (2) Describe the effects that resulted from the **earthquakes** both primary and secondary. (3) Describe what was done after the **earthquake** (responses), both in the long and short term.					
I can explain why **earthquakes** cause more loss of life in poor than in rich countries.					
I can explain why people continue to live in areas at risk of **tectonic hazards**.					
I can explain how monitoring, planning and prediction of **tectonic hazards** can reduce their effects.					
Weather hazard					
I can describe the **global atmospheric circulation model.**					
I can explain how the **global atmospheric circulation** model affects weather around the world.					
I can describe the distribution of **tropical storms.**					
I can explain the causes of a **tropical storm.**					
Using a named example I can describe and explain the primary and secondary impacts of **tropical storms**.					
I can assess and evaluate methods of responses **tropical storms** in both the long and the short term using a named example.					
I can explain how **tropical storms** might be affected by **global warming.**					
I can explain how monitoring, planning and prediction of **tropical storms** can reduce their effects.					
I can explain the cause of an **extreme weather** event using an example.					
I can describe and expel the social, economic and environmental using an example.					
I can identify evidence of the weather becoming more extreme using an example.					
I can explain how extreme events can be managed to reduce the impacts.					
I can assess and evaluate the **impact** that weather conditions have upon people homes, lives, agriculture, health and transport.					
Climate change					
I can explain the evidence both for and against **climate change.**					
I can explain both the **natural** and **human** causes of climate change.					
I can assess and evaluate the economic, social, environmental and political impacts of **climate change** both on the world and the UK.					
I can describe and evaluate the **mitigation** strategies used to reduce the impact of global **climate change** on a **local, national and international** level.					
I can describe and evaluate the **adaption** strategies used to reduce the impact of global **climate change** on a **local, national and international** level.					

The Living world

		☺	😐	☹	Revision undertaken
Using an example from the UK, I can explain the **interrelationship** within the natural system.					
I can define and give UK examples of **producers consumers, decomposer, food chain, food web** and **nutrient cycle**					
I can explain their **interdependence** of each of the above and explain how changes might affect each other.					
I can describe the **distribution** and characteristics of **global ecosystems** around the world.					
Tropical rainforests (core content)					
I can describe the physical characteristics of the **tropical rainforests**					
I can explain the **interdependence** of the climate, water, soils, plants, animals and people in a tropical rainforest					
I can explain how plants and animals have **adapted** to the physical conditions of tropical rainforests.					
I can describe and explain the problems and issues with changing **biodiversity** within the tropical rainforest.					
I can describe and explain the changing rates of **deforestation**.					
I can use a case study to explain the causes of **deforestation** subsistence and commercial farming, 1. Logging, 2. Road Building 3. Mineral Extraction 4. Energy Development, 5. Settlement 6. Population Growth					
I can use a case study to explain the impacts of **deforestation** 1. Economic development 2. Soil erosion, 3. Contribution to climate change.					
I can explain the importance and **value** of the tropical rainforest on a local, national and international scale.					
I can explain why it is important the tropical rainforest should be **managed sustainably**.					
I can explain how the tropical rainforest can be managed sustainably using a range of methods 1. Selective logging and replanting 2. Conservation and education 3. Ecotourism 4. International agreements about the use of tropical hardwoods, 5. Debt reduction.					
Hot deserts (option)					
I can describe the physical characteristics of the hot desert					
I can explain the **interdependence** of the climate, water, soils, plants, animals and people in a hot desert					
I can explain how plants and animals have **adapted** to the physical conditions of hot deserts					
I can describe and explain the problems and issues with changing **biodiversity** within the hot desert.					
I can use a case study to explain the causes of **desertification** subsistence and commercial farming, 1. Mineral Extraction 2. Energy Development 3. Farming 4. Tourism					
I can use a case study to explain the challenges of **desertification** 1. Extreme temperature 2. Water supply 3. Inaccessibility					
I can define and describe **desertification**					
I can explain the causes of **desertification** both human and natural					
I can explain a how **desertification** can be managed using: 1. Water and soil management 2. Tree planting 3. Using appropriate technology					

Physical landscapes in the UK

		☺	😐	☹	Revision undertaken
I can describe the location of the major upland and lowland areas within the UK					
I can describe the location of the major river systems within the UK					
Coastal landscapes of the UK					
I can define what the coast is					
I can describe and explain the different types of **waves**					
I can name and explain the four processes of **erosion**					
I can name and explain the processes of **weathering**					
I can name and explain the processes of **mass movement**					
I can describe **erosional landforms** and the sequence of (arch, caves, stacks, stump, wave cut platforms, wave cut notch) are formed.					
I can describe and explain the process of **mass movement** and **slumping**					
I can explain, using an example, how **erosion** and **deposition** will impact on the people and the environment at the coast.					
I can describe the processes of **transportation** in the coastal zone. (Longshore drift and traction, saltation, suspension and solution)					
I can explain the reasons why sediment is **deposited** on the coast.					
I can explain how **depositional landforms** (beaches, spit and bars) are formed.					
I can describe and explain methods of **hard** and **soft engineering** using an example.					
I can evaluate the cost and benefits of **hard** and **soft engineering** using an example.					
I can explain why people have different views about the way the coast in managed and the conflicts this may cause using an example.					
I can identify on an OS map all of the coastal landforms and use 4 & 6 fig grid references to locate them on a map					
River landscapes of the UK					
I can describe how a rivers **long profile** and **cross profile** varies over it's course					
I can explain how **vertical** and **lateral** erosion changes the cross profile of a river					
I can explain the four process of **erosion**					
I can describe the four processes of **transportation** in a river					
I can explain the reasons why a river **deposits** its eroded material					
I can explain how **interlocking spurs, waterfalls** & **gorges** are formed					
I can explain that **meanders** are formed by erosion & deposition					
I can describe an **Ox Bow lake** and explain how they form from meanders					
I can explain how a **flood plain**, levee and estuaries are formed					
I can use an example of a river valley to demonstrate my understanding of the erosional and depositional landforms					
I can explain how physical and human factors affect the risk of flooding including precipitation, geology, relief and land use.					
I can explain what river **discharge** means & how it is shown on a **hydrograph**					
I can explain at least 4 **factors** (things!) that will either **increase or decrease** river discharge					
I can explain how **hard engineering** can reduce the risk of flooding or the effects of flooding					
I can explain how **soft engineering** can reduce the risk of flooding or the effects of flooding					
Using an example I can explain 1. Why the scheme was required 2. How the area was managed 3. The social, environmental and economic issues.					
I can identify on an OS map all of the river landforms and use 4 & 6 fig grid references to locate them on a map.					