**PAPER 3 REVISION QUIZ BOOKLET**

***Key elements of all paper 3 content to get your brain working!***

*Need more revision? Use the purple or green revision books from your packs of GCSE Bitesize.*

**The Decision Making Exercise will also be tested on this paper. You will be provided with a resource booklet to support with this. It will blend the 3 topics above together through the study of an issue which affects a particular place (e.g. exploitation of the Taiga Biome for Tar Sands development.) You will have number of options to choose from – there is no right or wrong answer, but you are awarded marks for: the quality of your explanation, your justification and your reasons for rejecting the other options.**

**Topic 7: People and the Biosphere**

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| **Question** | **Your Answer** | **Correction** |
| 1. What is the definition of a biome? |  |  |
| 1. What is the definition of latitude? |  |  |
| 1. What are the 3 climatic factors that influence the location of different biomes? |  |  |
| 1. How does latitude affect temperature? |  |  |
| 1. How does latitude affect precipitation? |  |  |
| 1. What biomes can be found in Africa? |  |  |
| 1. What biome is the UK in? |  |  |
| 1. What type of trees will grow in acidic soils? |  |  |
| **Question** | **Your Answer** | **Correction** |
| 1. What type of trees will grow in alkaline soils? |  |  |
| 1. What is altitudinal zonation? |  |  |
| 1. What is the definition of biotic? Give 2 examples. |  |  |
| 1. What is the definition of abiotic? Give 2 examples. |  |  |
| 1. Give an example of a provisioning service provided by forest biomes. |  |  |
| 1. Give an example of a supporting service provided by forest biomes. |  |  |
| 1. Give an example of a regulating service provided by forest biomes. |  |  |
| 1. Give an example of a cultural service provided by forest biomes. |  |  |

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| **Question** | **Your Answer** | **Correction** |
| 1. Give one way in which ecosystems are important globally. |  |  |
| 1. Give one way in which ecosystems are important locally. |  |  |
| 1. Give 2 reasons why biomes are being cleared commercially. |  |  |
| 1. Give the definition of a carbon sink. |  |  |
| 1. What are the 3 stores in the nutrient cycle? |  |  |
| 1. How does removing trees interrupt the hydrological cycle? |  |  |
| 1. What did Malthus believe would happen to population and resources over time? |  |  |
| 1. What did Boserup believe would happen to population and resources over time? |  |  |

**Topic 8: Forests Under Threat**

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| **Question** | **Your Answer** | **Correction** |
| 1. What is the climate of the rainforest like? |  |  |
| 1. What are the four layers of the rainforest called? |  |  |
| 1. How are sloths adapted to life in the tropical rainforest? |  |  |
| 1. How are drip tip leaves adapted to life in the tropical rainforest? |  |  |
| 1. Give one way that the nutrient cycle is different in the rainforest. |  |  |
| 1. What is a direct threat? |  |  |
| 1. What is an indirect threat? |  |  |
| 1. What is the biggest reason for deforestation in Amazonia? |  |  |
| **Question** | **Your Answer** | **Correction** |
| 1. What could happen if the global climate changes by 3oc? |  |  |
| 1. How does drought damage rainforests? |  |  |
| 1. How does CITES help to protect rainforests? |  |  |
| 1. Give 1 advantage and 1 disadvantage of CITES. |  |  |
| 1. How does REDD help to protect rainforests? |  |  |
| 1. Give 1 advantage and 1 disadvantage of REDD. |  |  |
| 1. What is sustainable rainforest management? |  |  |
| 1. What is the climate of the Taiga biome like? |  |  |

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| **Question** | **Your Answer** | **Correction** |
| 1. Where do we find the Taiga biome? |  |  |
| 1. Give one way in which trees are adapted to life in the Taiga biome. |  |  |
| 1. Why is the biomass store small in the Taiga biome? |  |  |
| 1. How are tar sands threatening the Taiga biome? |  |  |
| 1. How is climate change affecting the Taiga biome? |  |  |
| 1. How does the Wilderness act protect the Taiga biome? |  |  |
| 1. How do National Parks protect the Taiga biome? |  |  |
| 1. Give one reason FOR and one reason AGAINST protecting the Taiga biome. |  |  |

**Topic 9: Consuming Energy Resources**

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| **Question** | **Your Answer** | **Correction** |
| 1. What is the definition of non-renewable energy resource? Give an example. |  |  |
| 1. What is the definition of renewable energy resource? Give an example. |  |  |
| 1. Give one advantage and one disadvantage of using wind power. |  |  |
| 1. Why has the UK coal industry declined? |  |  |
| 1. Give one reason why energy use increases with economic development. |  |  |
| 1. What is peak oil? |  |  |
| 1. Why does the price of oil change? |  |  |
| 1. How did the Iraq war affect the price of oil? |  |  |
| **Question** | **Your Answer** | **Correction** |
| 1. Explain the process of fracking. |  |  |
| 1. What are the advantages of developing oil and gas from the Arctic? |  |  |
| 1. What are Tar Sands? |  |  |
| 1. What is the biggest environmental risk associated with Tar Sands extraction in Canada? |  |  |
| 1. Give 2 ways in which we can make homes more energy efficient. |  |  |
| 1. Give 3 ways in which London has reduced its carbon footprint. |  |  |
| 1. Define the term ‘carbon footprint’. |  |  |
| 1. Define the term ‘energy diversification’. |  |  |

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| **Question** | **Your Answer** | **Correction** |
| 1. What are the advantages of using hydrogen fuel for cars? |  |  |
| 1. What are the disadvantages of using hydrogen fuel for cars? |  |  |
| 1. How can we make energy use more sustainable? |  |  |
| 1. What reasons may there be for reduced CO2 emissions in the future? |  |  |
| 1. How does energy use change as countries become more developed? |  |  |
| 1. Explain what the Kuznets curve shows. |  |  |
| 1. How can individuals reduce their ecological footprint? |  |  |
| 1. What is the 450 scenario? |  |  |