

Living with the physical environment	RAG Rating		
<b>Section B: The living world</b>	<b>R</b>	<b>A</b>	<b>G</b>
<b>Ecosystems</b>			
<b>Key Idea 1: Ecosystems exist at a range of scales and involve the interaction between biotic and abiotic components.</b>			
<i>I can define ecosystem and biome</i>			
I can describe the interrelationships in a small scale ecosystem such as a deciduous forest e.g. Epping Forest			
I can explain the balance between components in an ecosystem			
I can explain the impact on the ecosystem of changing one component			
<b>Tropical rainforests</b>			
<b>Key Idea 2: Tropical rainforest ecosystems have a range of distinctive characteristics</b>			
I can describe and explain the physical characteristics of a tropical rainforest			
I can explain the interdependence of climate, water, soils, plants, animals and people			
I can describe and explain how plants and animals adapt to the physical conditions			
<b>Issues related to biodiversity</b>			
<b>Key Idea 3: Deforestation has economic and environmental impacts</b>			
Changing rates of deforestation:			
<b>A case study of a tropical rainforest in Malaysia</b>			
I can explain these causes of deforestation – subsistence and commercial farming, logging, road building, mineral extraction, energy development,			
<i>I can explain the impacts of deforestation – economic development, soil erosion,</i>			
<b>Key Idea 4: Tropical rainforests need to be managed to be sustainable</b>			
I can explain why tropical rainforests are value to people and the environment			
<i>I can describe and explain the strategies used to manage the rainforest sustainably</i>			
<b>Hot Deserts</b>			
<b>Key Idea 5: Hot desert ecosystems have a range of distinctive characteristics</b>			
I can describe and explain the physical characteristics of a hot desert			
I can explain the interdependence of climate, water, soils, plants, animals and people			
I can describe and explain how plants and animals adapt to the physical conditions			
Issues related to biodiversity			
<b>Key Idea 6: Development of hot desert environments creates opportunities and challenges</b>			
<b>A case study of The Thar hot desert in India</b>			
I can describe and explain the development opportunities in hot desert environments: mineral extraction, energy, farming, tourism			
I can describe and explain the challenges of developing hot desert environments: extreme temperatures, water supply, inaccessibility			
<b>Key Idea 7: Areas on the fringe of hot deserts are at risk of desertification</b>			
I can describe and explain the causes of desertification – climate change, population growth, removal of fuel wood, overgrazing, over-cultivation and soil erosion			
<i>I can describe and explain the strategies used to reduce the risk of desertification – water and soil management, tree planting and use of appropriate technology</i>			