

Paper 1

The Living World PLC

Red = Not confident at all
 Amber = Some confidence
 Green = Very confident



reference notes



interactive quizzes



	Red	Amber	Green
Ecosystems exist at a range of scales and involve the interaction between biotic and abiotic components			
I know what an ecosystem is.			
I know an example of a small-scale ecosystem.			
I know the interrelationships within an ecosystem (how things are linked).			
I understand the nutrient cycle.			
I know the main features of a food chain.			
I know the main features of a food web.			
I know the impact of changes to one component in an ecosystem.			
I know the distribution of the world's main biomes.			
I know the characteristics of large scale natural global ecosystems (biomes).			
Tropical rainforest ecosystems have a range of distinctive characteristics			
I know the physical characteristics of a tropical rainforest.			
I know how climate, water, soils, plants, animals and people are interdependent in the tropical rainforest.			
I know how plants have adapted to physical conditions of the tropical rainforest.			
I know how animals have adapted to physical conditions of the tropical rainforest			
I know how and why the tropical rainforest ecosystem has a high biodiversity.			
Deforestation has economic and environmental impacts			
I know the changing rates of deforestation in the tropical rainforest.			
Using a case study, I know the causes of deforestation in the tropical rainforest.			
Using a case study, I know the impacts of deforestation in the tropical rainforest.			
Tropical rainforests need to be managed to be sustainable			
I know the value of tropical rainforests to people and the environment.			
I can identify, describe, and explain a range of strategies to manage the tropical rainforest ecosystem at a local scale.			
I can identify, describe, and explain a range of strategies to manage the tropical rainforest ecosystem at an international scale.			

You will have studied either a hot or cold ecosystem environment. You only need to review your knowledge and understanding of one of the ecosystems below.

Hot Desert Ecosystems

	Red	Amber	Green
Hot desert ecosystems have a range of distinctive characteristics			
I know the physical characteristics of a hot desert.			
I know how climate, water, soils, plants, animals, and humans are interdependent.			
I know how plants have adapted to the physical conditions of the hot desert ecosystem.			
I know how animals have adapted to the physical conditions of the hot desert ecosystem.			
I understand the issues relating to biodiversity in the hot desert ecosystem.			
Development of hot desert environments creates opportunities and challenges			
Using a case study, I can describe and explain the development opportunities in hot desert environments including mineral extraction, energy, farming, and tourism.			
Using a case study, I can describe and explain the challenges of developing hot desert environments including extreme temperatures, water supply, and inaccessibility.			
Areas on the fringe of hot deserts are at risk of desertification			
I can describe and explain the causes of desertification including climate change, population growths, removal of fuel wood, overgrazing, over-cultivation, and soil erosion.			
I can describe and explain a range of strategies used to reduce the risk of desertification – water and soil management, tree planting, and use of appropriate technology.			

Cold Environment Ecosystems

	Red	Amber	Green
Cold environments have a range of distinctive characteristics			
I know the physical characteristics of a cold environment ecosystem.			
I know how climate, permafrost, soils, plants, animals, and humans are interdependent.			
I know how plants have adapted to the physical conditions of a cold environment ecosystem.			
I know how animals have adapted to the physical conditions of a cold environment ecosystem.			
I understand the issues relating to biodiversity in a cold environment ecosystem.			
Development of cold environments creates opportunities and challenges			
Using a case study, I can describe and explain the development opportunities in cold environments including mineral extraction, energy, fishing, and tourism.			
Using a case study, I can describe and explain the challenges of developing cold environments including extreme temperatures, inaccessibility, and provision of buildings and infrastructure.			

Cold environments are at risk from economic development

I know the value of cold environments as wilderness areas and why these fragile environments should be protected.

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I can describe and explain strategies used to balance the needs of economic development and conservation in cold environments – use of technology, role of governments, international agreements, and conservation groups.

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