


Ecosystems





A Programme of Study for Year 8 Geography
by Andy Ouma



Humanities at Quintin Kynaston School,
Marlborough Hill, London, NW8 0NL

Ecosystems

This Scheme of Work has been written by Humanities teachers at Quintin Kynaston School with an emphasis on achieving understanding of the subject rather than simply a drive to complete a syllabus. It is designed for our multi-cultural student body spanning a range of abilities. Wherever practicable we prepare **Differentiated Resources** (indicated by a  symbol) for students with Special Needs, those who are early English learners and for gifted and talented students. Further work is in hand on

these. We also take into account National Strategies: specific tasks are indicated by  for **Literacy**,  for **Numeracy** and  for **Information Technology**. Topics supporting **Citizenship** are marked . This Scheme of Work will be reviewed and revised in due course.

October 2003

Key Question	Learning Objectives	Key Vocabulary	Suggested Activities	Resources	Homework
What is the tropical ecosystem like? (2 lessons)	<ul style="list-style-type: none"> To define ecosystem To describe the equatorial climate To explain how latitude has brought about the equatorial climate. 	Ecosystem Equatorial Tropic	Construct rainfall and temperature graph of the equatorial climate. Label map showing areas that experience this climate. Write a 100-word paragraph accounting for the equatorial climate.	Key Geography Interactions Worksheet	Find ten facts about the vegetation of equatorial regions. (Preparation for next unit)
How has the vegetation of rain forests adapted to the climate? (2 lessons)	<ul style="list-style-type: none"> To locate the tropical rain forest To describe its vegetation To explain the adaptations of vegetation to climate. 	Adaptations Buttress Roots Canopy Diversity Drip Tips Emergents Humus Lianas Phototropism	Annotate diagram of the structure of the vegetation in the tropical rain forest. Create a table with two columns: Adaptation and Reason and fill in with as many adaptations as you know.	Video: 'Rain forests' (21 mins) Key Geography Interactions Worksheet	Read about the native dwellers of the Tropical Rain Forest. Make brief notes. (Preparation for next unit)

Ecosystems

Key Question	Learning Objectives	Key Vocabulary	Suggested Activities	Resources	Homework
How do the native dwellers of the rain forest use their environment? (2 lessons)	<ul style="list-style-type: none"> To name the native dwellers of the tropical rain forest To describe their use of the forest To evaluate their impact on their environment 	Fallow Shifting Cultivation Slash-and-Burn Sustainable	Colour diagram of Kayapo village in the rain forest. Place the stages of shifting cultivation in order. Write a 100-word letter explaining why your family's use of the forest is sustainable.	Videos: 'Place and People Amazonia Programme 2' and 'Living in the forest' (20 mins) Key Geography Places Worksheet	Write 'A day in the life of a Kayapo family.' (max 1XA4)
How is the rain forest being developed? (2 lessons)	<ul style="list-style-type: none"> To state how the rain forest is being developed To suggest effects of this development To argue whether or not the forest should be developed 	Conserve Development Exploitation Hydro-Electric Power (HEP) Logging Mining Ranches	Name mineral mined. Effects of building roads and uses of HEP. Distinguish human from environmental problems. Categorise these problems. Identify problems and benefits of the different developments taking place in the Amazon. Argue for or against the development of the rain forest.	Videos: Place and People: Amazonia' and 'Exploiting the forest' Key Geography Places Worksheet	Using the internet and text books, make brief notes on one specific development in the tropical rain forest. What have the benefits and problems been?
Why are the hot deserts hot? (2 lessons)	<ul style="list-style-type: none"> To describe the characteristics of the hot deserts To explain why they are hot To evaluate the usefulness of items needed to cope in the hot desert 	Adaptation Hot Deserts	Construct climate graph of hot desert. Fill in flowchart explaining the formation of the hot deserts. Label camel to explain how it is adapted to life in the desert. Decide which five items you would take on a desert trek from a list of ten. Justify why these are the most important.	Video: 'Bill Nye the Science Guy: Deserts' (26 mins) Key Geography Interactions Worksheet	Write a detailed report on the location, conditions, vegetation, wildlife and human life of one of the world's hot deserts, emphasising adaptation to climate.

Ecosystems

Key Question	Learning Objectives	Key Vocabulary	Suggested Activities	Resources	Homework
How do people use the Mediterranean climate? (2 lessons)	<ul style="list-style-type: none"> To describe the Mediterranean climate To explain how plants have adapted to the climate To evaluate the importance of this climate to tourism in Italy 	Adaptation Latitude Prevailing Wind Mediterranean	Construct a climate graph for the Mediterranean given data. Match adaptation of vegetation to reason for adaptation. Identify products from the Mediterranean. Say how important the Mediterranean climate is to tourism in Italy	Key Geography Interactions Worksheet	Construct a project on a particular tourist destination in the Mediterranean. Explain the attractions and distinguish the climatic from the non-climatic ones.