

Knowledge Organiser – Ecology in Action

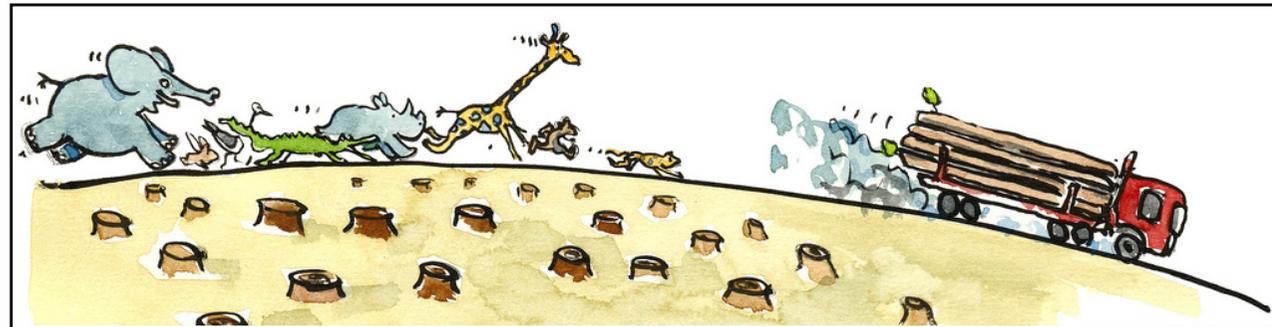
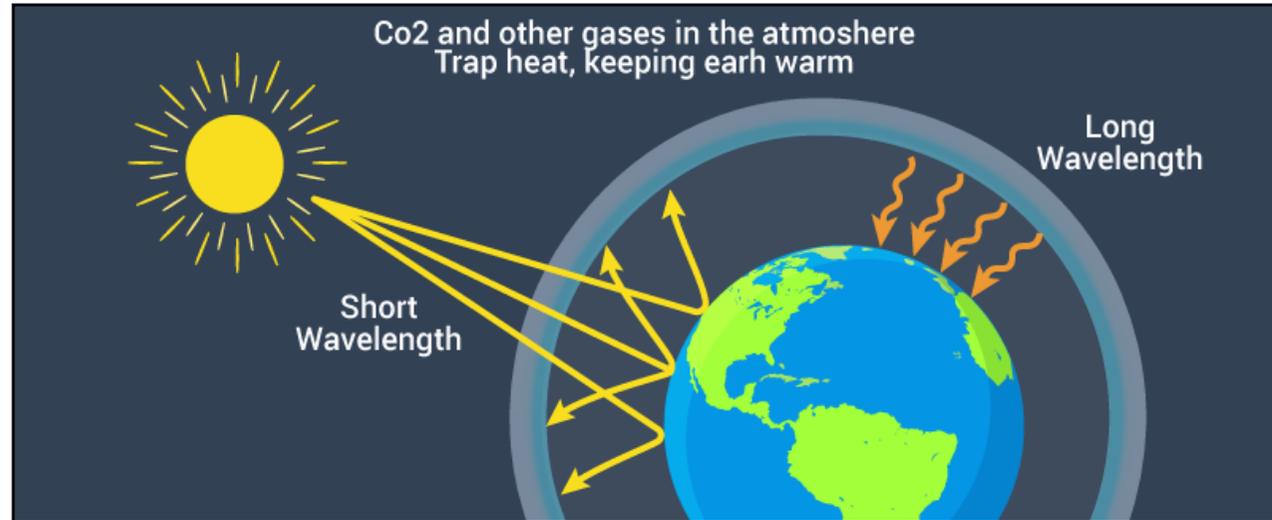
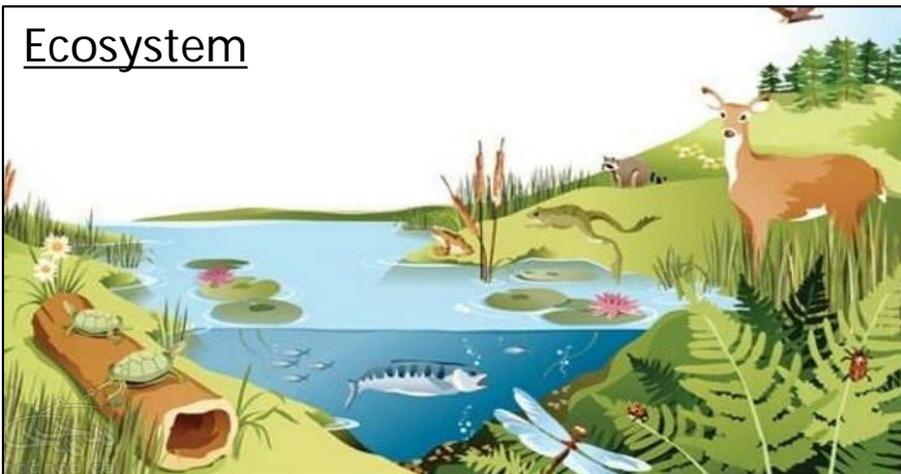
Knowledge and Content

- Recall the causes of environmental change and describe the impacts that environmental change can have.
- Identify why land use has changed
- Identify factors that affect the rate of photosynthesis
- Describe the impact of peat bog destruction and deforestation
- Describe how waste production is linked to human population growth
- Compare different methods of measuring pollution
- Explain how indicator species measure pollution
- Describe the impact of breeding programmes
- Explain how habitats are regenerated
- Describe how different factors affect food security
- Explain ethical issues related to intensive farming
- Describe methods to maintain sustainable fisheries
- Describe and evaluate some uses of biotechnology

Mathematical and Practical Skills

- Translate information between graphical and numerical form
- Recognise and use expressions in decimal form
- Solve simple algebraic equations
- Understand and use simple mathematical symbols
- Construct and interpret frequency tables and diagrams, bar charts and histograms
- Make estimates of the results of simple calculations

Ecosystem



Key Terms

Ecosystem	All of the living and non-living components in a particular geographical area.
Biodiversity	A measure of the variety of all the different species of organisms.
Greenhouse Effect	The retention of heat in the atmosphere caused by the build up of greenhouse gases (carbon dioxide, nitrous oxide and chlorofluorocarbon).
Peat bog	Poorly drained areas made up of partially decomposed organic matter due to waterlogging.
Extinct	A species that has completely died out.
Population	All of the members of a single species that live within a geographical area.
Eutrophication	'Hyper-nutrition' resulting from fertiliser pollution of aquatic ecosystems.
Biofuels	Energy source derived from renewable plant and animals materials e.g. ethanol, biodiesel and biogas.
Habitat	A place where plants, animals and microorganisms live.
Species	A type of organism that is the basic unit of classification. Individuals of different species are not able to interbreed successfully.