

Science Knowledge Organiser – B3 Life on Earth

B3.1 Systems in balance – how do different species depend on each other?	
Species	
Adaptation	
Competition	
Interdependence	
Food web	
Extinct	
Carbon cycle	
Combustion	
Respiration	
Photosynthesis	
Decomposition	
Detritivore	
Nitrogen cycle	
Nitrogen fixation	
Nitrogen fixing bacteria	
Denitrification	
Percentage efficiency	
Reasons for extinction	<ul style="list-style-type: none"> • • • •
Energy losses from the food chain	<ul style="list-style-type: none"> • • •
Role of microorganisms in the carbon cycle	
Role of microorganisms in the nitrogen cycle	
Living indicators	
Examples of living indicators	
Non-living indicators	

B3.2 How has life on Earth evolved?

Variation	
Mutation	
Evolution	
Natural selection	
Steps in natural selection	
Selective breeding	
Fossil	
Evidence for evolution	
Comparing evolution and natural selection	
How new species evolve	

B3.2 How has life on Earth evolved? Contribution of scientists

Darwin	
Lamarck	

B3.3 What is the importance of biodiversity?

Classification	
Biodiversity	
Sustainability	
Monoculture	
Importance of biodiversity	
Extinction due to humans - direct	
Extinction due to humans - indirect	
Improving sustainability	