AQA B7a – Ecology: Adaptations COMBINED HIGHER			Types of adaptations				
Key word	Definition			Structural	Behavioural		Functional
Environment	The biotic and abiotic conditions that surround an organism		Definition	Features of an organism's body e.g. shape, colour	The way an orgar e.g. migration, hit		Things happening inside an organism e.g. reproduction, metabolic rate
Habitat	The place where organisms live		Examples	Polar bears live in the	Many bears hibernate over the winter. This lowers their metabolism, reducing need for hunting for energy when there is least food.		Desert animals such as camels produce very little urine to conserve water in a very dry habitat
Population	Individuals of one species that live in a particular habitat		Livampies	arctic so have white fur to camouflage against the snow			
Community	Populations of different species that live in a particular habitat						
Ecology	The study of living things in their environment						
Ecosystem	The interaction of a community of organisms (biotic) with the non-living (abiotic) parts of their environment		<b>Extremophiles</b> are organisms which live in very extreme environments such as high temperature, pressure or salt concentration. Examples are bacteria which live in deep sea vents.				
Organism	An individual living thing	Interdependence and competition					
_				Interdependence		Competition	
Adaptations	ations Features that allow organisms to survive in the conditions in which they normally live		Description	Species depend on each other in many		Plants in a community or habitat compete with	
Examples of biotic and abiotic factors				ways: for food, pollination, seed dispersal. Removing a species can affect		each other for many things: light, air, water, space and minerals Animals also compete; for food, mates and territory	
Biotic – living factors that affect a community Abiotic – non-living factors that affect a community		the whole communi					
<ul> <li>Temperature</li> <li>Light intensity</li> <li>Moisture levels</li> <li>Soil pH</li> <li>Wind intensity</li> <li>Carbon dioxide levels for a plant</li> <li>Oxygen levels for aquatic animals</li> <li>Competition – one species outcompetes another</li> </ul>		Examples			re introduced to the UK in the ased competition for food with irrels.		
and direction			Photosynthetic organisms are the producers of biomass for life on earth. Feeding relationships can be represented by food chains that all start with a producer Consumers that kill and eat other animals are predators. Consumers that kill and eat other animals are predators. Consumers that are killed and eaten by other animals are prey. In a stable community, the number of predators and prey rise and fall in cycles RP9 – Measure the population size of a common species in a habitat. Use sampling techniques to investigate the effect of a factor on the distribution of this species				
All materials in the living world are recycled to provide building blocks for future organisms Microorganisms cycle materials by returning carbon to the atmosphere as CO <sub>2</sub> and mineral ions to the soil.			A range of experimental measures using <b>transects</b> and <b>quadrats</b> are used by ecologists to determine the distribution and abundance of species in an ecosystem <b>Quadrats</b> – Organisms are counted within a randomly placed square <b>Transect</b> – Organisms are counted along a line				

**Transect** – Organisms are counted within a rank

and mineral ions to the soil.