Key word	Definition			Structural	Behavioural		Functional	
Environment		conditions that surround an	Definition	Features of an organism's body e.g. shape, colour	The way an organism behaves e.g. migration, hibernation		Things happening inside an organism e.g. reproduction, metabolic rate	
Habitat	The place where organisms live		Examples	Polar bears live in the arctic so have white fur to camouflage against the snow	Many bears hibernate over the		Desert animals such as	
Population	Individuals of one species that live in a particular habitat				winter. This lower metabolism, redu hunting for energ	cing need for	camels produce very little urine to conserve water in a very dry habitat	
Community	Populations of different species that live in a particular habitat				least food.			
Ecology	The study of living things in their environment		Extremophiles 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.					
Ecosystem	The interaction of a community of organisms (biotic)			Interdependence and competition				
Owneriem	with the non-living (abiotic) parts of their environment An individual living thing			Interdependence		Competition		
Organism Adaptations	Features that allow organisms to survive in the conditions in which they normally live		Description	Species depend on each other in many ways: for food, pollination, seed dispersal. Removing a species can affect the whole community Plants in a community or habitat co each other for many things: light, ai space and minerals Animals also compete; for food, ma			ny things: light, air, water, als	
Abiotic – non - living factors that affect a community biotic - living factors that affect a community		_		territory				
 Temperature Light intensity Moisture levels 	 Carbon dioxide ight levels for a plant ntensity Oxygen levels for aquatic animals Competition – one species Availability of food Predation New pathogens Competition – one species 		Removing a species can affect the whole community. In the food chain below, if mice were removed from the habitat, the owl would have no food and their population would decrease. Grey squirrels were introduced to the UK in the 1800s. This increased competition for food with the native red squirrels and the red squirrel population in the UK has decreased.				ased competition for food with iirrels and the red squirrel	
Soil pH Wind intensity and direction		outcompetes another	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 are killed and eaten by other animals are prey.					
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			t.e		()	\ num	stable community, the ober of predators and prey rise fall in cycles	
A range of experimental measures using transects and quadrats are used by ecologists to determine the distribution and abundance of species in an ecosystem Quadrats – Organisms are counted within a randomly placed square Transect – Organisms are counted along a line It is important to use random co-ordinates for your quadrat to get a			Grass Producer	consumer	ondary	uojalindod	prey predator time	
completely random sample. Random number button on your calculator or a random number table can be used.			Arrows	Arrows show the flow of energy from the producer				

Types of adaptations

AQA B7a – Ecology COMBINED HIGHER