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 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 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						
Community	Populations of different species that live in a particular habitat						
Ecology	The study of living things in 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.				
Ecosystem	The interaction of a community of organisms (biotic)		Interdependence and competition				
0	with the non-living (abiotic) parts of their environment			Interdependence			Competition
Organism	An individual living thing  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 compete with each other for many things: light, air, water, space and minerals Animals also compete; for food, mates and territory	
Adaptations							
Abiotic – non - living factors that affect a community biotic - living factors that affect a community		Evernles		fft th			
<ul><li>Temperature</li><li>Light intensity</li><li>Moisture levels</li></ul>	<ul> <li>Carbon dioxide levels for a plant</li> <li>Oxygen levels for aquatic animals</li> </ul>	Availability of food     Predation     New pathogens     Competition – one species outcompetes another	Examples	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.	
<ul><li>Soil pH</li><li>Wind intensity and direction</li></ul>			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.c	1	()	\ num	stable community, the nber of predators and prey rise fall in cycles
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  It is important to use <b>random</b> co-ordinates for your quadrat to get a			Grass —	consumer	Jilaai y	owl uotelindod vicinity usumer	prey predator time
completely random sample. Random number button on your calculator or a random number table can be used.			Arrows show the flow of energy from the producer				

Types of adaptations

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