

Ecology (Biology)
Year 7, Summer Term

<i>You will be taught</i>	<i>You should know</i>
about ways in which living things and the environment can be protected, and the importance of sustainable development	the importance of conserving local habitats that the resources of the Earth are limited and need to be managed
that habitats support a diversity of plants and animals that are interdependent	quite a lot about at least one habitat studied at school [e.g. <i>a freshwater pond; a meadow; a deciduous woodland</i>]. Think back to the field work done in Year 7
how some organisms are adapted to survive daily and seasonal changes in their habitats	about the habitat of at least one animal and one plant, understanding how they are adapted to the conditions in their natural habitats at different times of the day, and in different seasons of the year;
	how to measure at least one physical factor [e.g. <i>temperature, light intensity</i>] in the habitat
how predation and competition for resources affect the size of populations [e.g. <i>bacteria, growth of vegetation</i>]	how to use a random simple method of estimating the population size of one type of organism by means of a quadrat
	that population size is affected by predation and competition
about food webs composed of several food chains, and how food chains can be quantified using pyramids of number	about one simple food chain in one of the habitats studied;
	the difference between a food chain and a food web ; I know that all food chains start with a green plant and that the arrows go from the producer -> consumer -> consumer
how toxic materials can accumulate in food chains.	<i>Questions will be restricted to data interpretation</i>

http://www.bbc.co.uk/schools/ks3bitesize/science/biology/feeding_intro.shtml

http://www.bbc.co.uk/schools/ks3bitesize/science/biology/adaptation_intro.shtml