Combined Science - Biology - Key stage 4 Ecology

Biodiversity

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Independent practice

- 1. What is biodiversity?
- 2. Why is low biodiversity a bad thing?
- 3. Give four examples of human activities that decrease biodiversity
- 4. What is the difference between being endangered and being extinct?



- 1. What is biodiversity?

 The variety of living organisms in a given place
- 1. Why is low biodiversity a bad thing?

 It increases the dependence of one organism on another so if one is affected lots of others will be as well



- 3. Give four examples of human activities that decrease biodiversity
 - Increased farming, building, quarrying, deforestation, clearing peat bogs, waste management
- 4. What is the difference between being endangered and being extinct?
 - Endangered means there are very few individuals of the species left and they are at risk of becoming extinct. Extinct means that no individuals of the species are left.



Independent practice

Complete the following sentences:

The increased	population mea	ans that more
are being used	d and more	is being produced
which leads to	·	
More land is a	lso being used fo	or b, q,
f and p	b	
In addition, tre	es are being cu	t down so there is more
room for	and crops fo	r and



Complete the following sentences:

The increased population means that more **resources** are being used and more **waste** is being produced which leads to **pollution**.

More land is also being used for **buildings**, **quarrying**, **farming** and **peat bogs**.

In addition, trees are being cut down so there is more room for **cattle** and crops for **food** and **biofuels**.



Independent practice

For each of the 5 ways of maintaining biodiversity explain how they help and give an example. (breeding programs, managing habitats, field margins/hedgerows, targets and limiting resource use)

Model:

Breeding programs increase the populations of endangered species. An example is the giant panda.



The protection and regeneration of habitats provides more places for species to live and will increase their numbers. An example are coral reefs.

Having field margins and hedgerows increases soil fertility, stops erosion and provides habitats. An example would be planting hedgerows in the middle of large fields.



Government targets will help to reduce levels of activities that damage the environment. An example would be reducing carbon dioxide emissions.

Limiting resource use will help as it will mean less waste is produced and sent to landfill. Examples would be recycling and reusing.

