

Blanket Bogs as an example of a UK habitat

Food Web and Species Adaptations







Today's Focus

- What are food chains and food webs?
- What are producers, consumers, detritivores decomposers?
- How 2 species are suited to life in blanket bog habitats?

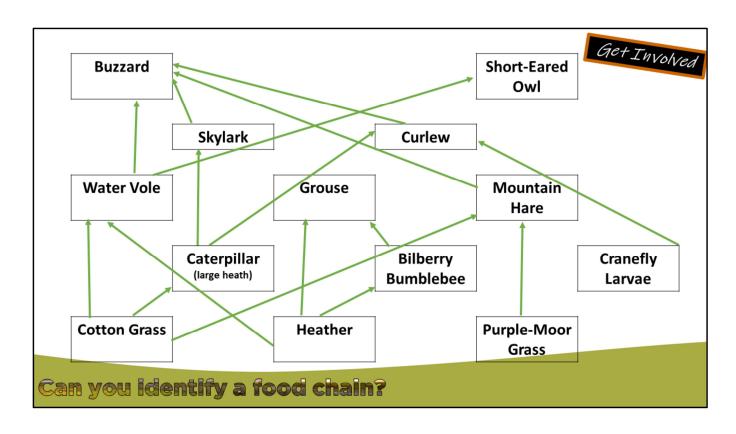


Simple feeding relationship linking one organism to the next in one pathway



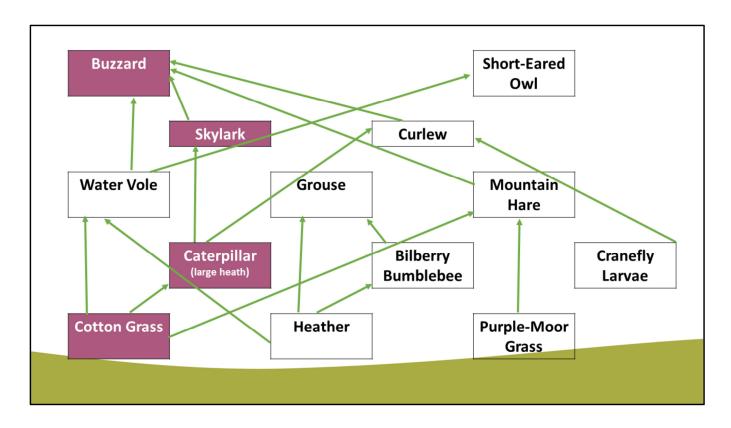


Feeding relationship of the whole community in an ecosystem including all the food chains



Activity – Research some other species that use blanket bog, moorland habitat, where would they fit in this food web?

Draw your own version out on paper or create another one on the computer.

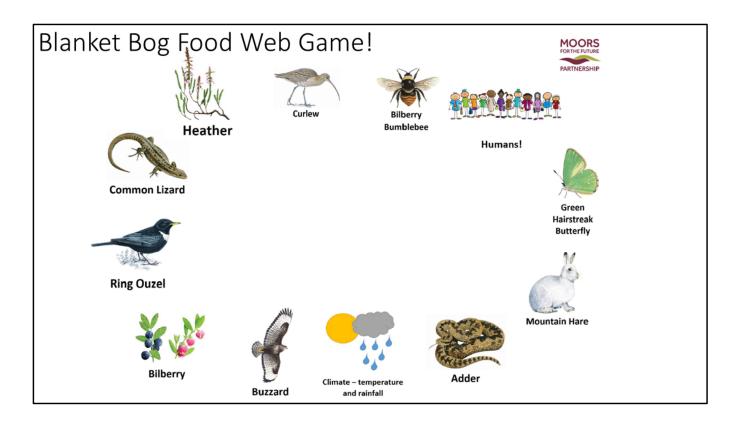


Questions

How would the rest of the species be affected if:

- The buzzard population increased?
- The buzzard population decreased?

How would the Skylark, Mountain Hare and Curlew be affected if the Water Vole numbers decreased?



Activity: Print this slide out or add lines electronically which show how the different species and factors are connected. You can add text to the lines if you want or just add lines as you think about or research a connection. Can you see the species interdependence connecting the species and the factors?

Note: remember, not all these species live in blanket bogs but might visit them from nearby habitats to hunt/forage for food.



Producers – organisms in the food web (or chain) which are capable of manufacturing their own food e.g. plants



Consumers — organisms that get all their energy by consuming other organisms

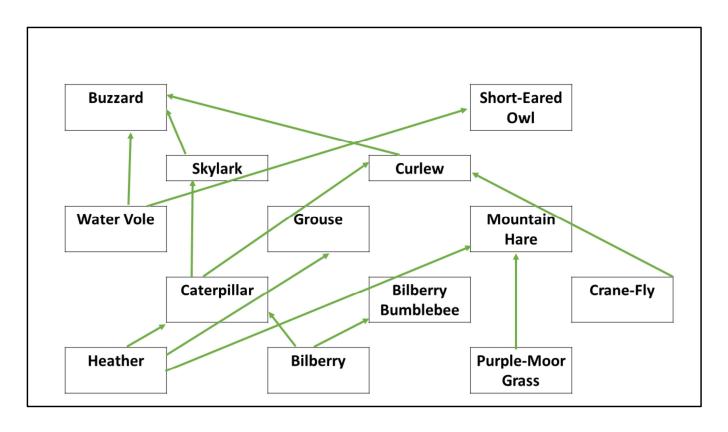
Detritivores — animal organisms that consume dead organic matter e.g. slugs, woodlice

Decomposers — bacteria and fungi involved in the breakdown of dead organic matter

Can you spot?

Producers Consumers Detritivores Decomposers





Activity

Read about categorising these organism further on GCSE Bitesize - https://www.bbc.co.uk/bitesize/guides/zpw3jty/revision/5

Can you create a colour code or label all the species in this foodweb, you might need to do some research to decide which category some of them fall into.

The Blanket Bog Life is the Hard Life

Low Nutrients

Upland - exposed

Acidic Conditions



Waterlogged soils

High temperature range

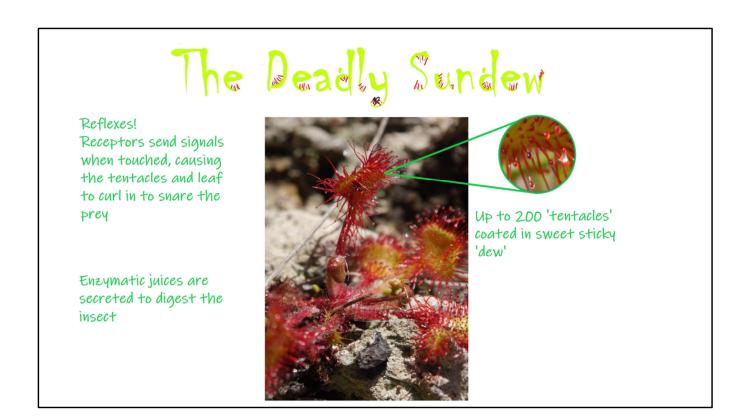
Species Adaptations

Round-leaved Sundew– Drosera rotundifolia

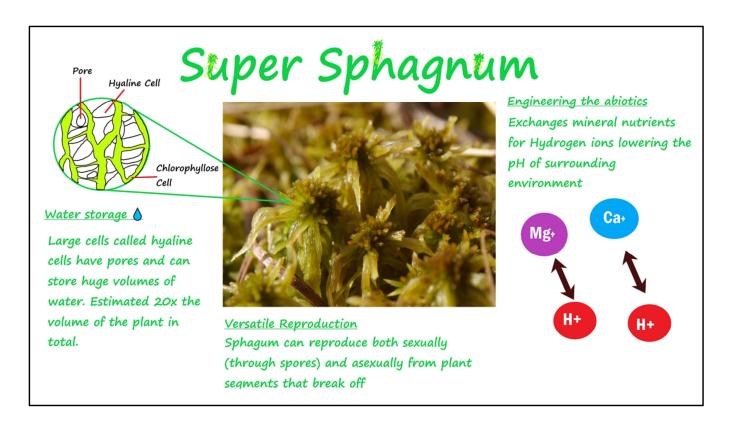


Sphagnum Moss – *Sphagnum sp.*





Activity – are there any other carnivorous plants that live in blanket bog habitats? Do they work in the same way as sundew?



Activity – What minerals do mosses like sphagnum need to absorb from their surroundings? Make a list.



Activity – Research how another species associated with blanket bogs is adapted to suit it's habitat. Draw and label a diagram or make some notes – you could even add a slide to this presentation about it.

What about the short-eared owl or the four-spot orb-weaver spider?



















