

Habitats

Activities for children aged 5–7 years

WWT has a well-established and well-loved education programme that we run across the UK at our ten wetland sites. We've designed these short activities based on one of our school activities. We've made it to connect you and your family to the natural world and help you to work with your children to feel great about nature and understand some of the things that WWT love and care about.

Why wetlands?

WWT works across the UK to save, conserve and build wetlands for wildlife and people. Wetlands are one of the most important habitats on earth – storing huge amounts of CO₂, providing a natural way of stopping flooding and serving as a home for huge numbers of different creatures.

This activity will help you and your children learn about habitats including the wetlands we look after.

These activities link to the National Curricula for science in England, Northern Ireland, Scotland and Wales.

Stuff you need:

- Paper
- Colouring pens and pencils
- Ruler and scissors (optional)
- Wetland Wildlife Cards (see final page of this document – optional)
- String or wool
- 'Habitats' visual sheet printed out (see final pages of this document – optional)

Note: Where you see a  this indicates a question to ask your child

Indoor activities

(40 minutes)

- Look at the 'Habitats' visual sheet with your child and explain that this is a wetland.
- A wetland is a type of habitat. A habitat is a place where an animal or plant lives.
- Within a habitat there can be a number of micro-habitats.
- The best way to think of it is to think of a garden. The habitat is the garden. Micro-habitats in the garden would include things like the lawn, a pond, under a rock, under a log, in a tree etc.

Key word: **WETLAND**

A wetland is land which is wet most or all of the time.

Key word: **HABITAT**

A type of natural environment where plants and animals live.

Key word: **MICRO-HABITAT**

A small-scale environment that forms part of a larger habitat.

- Can your child think of other examples of habitats and the micro-habitats within them?

Examples of habitats	Garden	Woodland	Desert	Beach
Examples of micro-habitats	<ul style="list-style-type: none"> - Lawn - Pond - Under a rock - Under a log - On a tree 	<ul style="list-style-type: none"> - Under a log - Hole in a tree - Under leaves - In rotting wood - In the soil 	<ul style="list-style-type: none"> - Under a rock - Beneath the sand - Oasis 	<ul style="list-style-type: none"> - Rockpool - Beneath the sand - Under a rock - Under seaweed

- Look again at the 'Habitats' visual with your child.

Q Which micro-habitats can you see?

(e.g. a tree, a pile of rocks, a bush, grass, a pond, a hole in the ground, a rotting log, a bird nest box)

- Get your child to label each of the micro-habitats.
- Go through each micro-habitat:

Q What do you think might live in each?

Q What makes this a good place for this particular animal to live?

Micro-habitats	Bird nest box	Hole in the ground	Log	Pond	Rock pile	Bushes	Trees	Under the ground
Examples of animal that might live there	Blue tit Great tit Sparrow	Rabbit Fox Badger	Spider Woodlouse Beetle	Ducks Fish Frog	Lizard Snake Toad	Ladybird Butterfly Grasshopper	Birds Squirrel Bat	Earthworm Centipede Millipede

- Take your wetland wildlife cards.
- Place some of the cards around the visual and use string or wool to show where each of these animals might live (use the string / wool to connect the animal card to its habitat).

Take it outside:

(30 minutes+)

- Go outside (take your wetland wildlife cards with you if you have them). Challenge your child to find as many micro-habitats as they can.

Q What would you call each micro-habitat?

Q Which types of animals do you think might live there?

Q Why does this micro-habitat make a good home for this type of animal?

- Call the name of an animal (you can use the wetland wildlife cards or some of the animals listed above). Can your child find an appropriate micro-habitat where this animal might live? If not, could you create one?
- Get your child to choose an animal that they really like that may be found in this area. Get them to use natural materials to create a micro-habitat / home for this animal.

Q What features does it have that help to provide for that animal's needs?

Q How do you think your animal would feel living here? Why?



@WWTWorldwide

**Have fun and do share your work to our social media accounts –
we'd absolutely love to see it!**

Habitats visual



Wetland wildlife cards

- To make the cards, cut the line across the width of your paper then fold each half in half again so you end up with a picture on one side and the information on the other. Stick the two sides together with glue.



Grey heron

Diet: Fish, small birds such as ducklings, small mammals and amphibians

Wetland adaptations: Long neck allows it to get to its prey beneath the water

Classification: Vertebrate - Bird

Habitat: Ponds, lakes, rivers and estuaries

Additional information: Stands stock still quietly waiting for its prey

Cut



Kingfisher

Diet: Fish, invertebrates, amphibians

Wetland adaptations: Their eyes have adapted to make prey look closer to the surface and they have a special membrane to protect their eyes when they hit the water

Classification: Vertebrate - Bird

Habitat: Lakes, streams, rivers and canals

Additional information: They dig nest tunnels in vertical, sandy river banks



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Stickleback

Diet: Insects, crustaceans, tadpoles and smaller fish

Wetland adaptations: Some sticklebacks have adapted to be able to cope with both fresh and saltwater meaning they can live in both rivers and the sea

Classification: Vertebrate - Fish

Habitat: Ponds, lakes, ditches and rivers

Did you know? The male develops a bright red throat and belly and performs a courtship dance to attract a mate. The male also builds and protects the nest

Cut



Eel

Diet: Plants, dead animals, fish eggs, invertebrates and other fish

Wetland adaptations: Long, narrow body enables it to get into crevices

Classification: Vertebrate - Fish

Habitat: Rivers and ditches

Did you know? Adult eels migrate 3,000 miles (4,800 km) to the Sargasso Sea to spawn. It then takes the young eels two or three years to drift back to their homes here in the UK



Cut

Common frog

Diet: Invertebrates and smaller amphibians

Wetland adaptations: Eyes are positioned on top of the head allowing the frog to see whilst its body is under the water

Classification: Vertebrate - Amphibian

Habitat: Ponds during the spring; woodland, gardens, hedgerows and grassland in summer and autumn; hibernate in pond mud or under log piles in winter

Did you know? Frogs hop whereas toads crawl

Cut



Common toad

Diet: Insects, spiders, slugs and worms

Wetland adaptations: Slightly webbed back feet help them to swim

Classification: Vertebrate - Amphibian

Habitat: Ponds in spring (prefer larger, deeper ponds than frogs); woodland, gardens, hedgerows and grassland in summer and autumn; hibernate under log piles, stones or in crevices over winter

Did you know? Toads usually have dry bumpy skin whilst frogs usually have moist slimy skin



Cut

Coot

Diet: Plants, seeds, snails and insects

Wetland adaptations: Flaps of skin on the toes act in the same way as webbed feet when swimming and stop them from sinking in mud

Classification: Vertebrate - Bird

Habitat: Lakes, ponds and rivers

Did you know? The white part on the front of its head gave rise to the phrase "as bald as a coot"

Cut



Kingfisher

Diet: Fish, invertebrates, amphibians

Wetland adaptations: Their eyes have adapted to make prey look closer to the surface and they have a special membrane to protect their eyes when they hit the water

Classification: Vertebrate - Bird

Habitat: Lakes, streams, rivers and canals

Did you know? They dig nest tunnels in vertical, sandy river banks

Cut



Cut

Water vole

Diet: Plants

Wetland adaptations: Waterproof fur

Classification: Vertebrate - Mammal

Habitat: Rivers, streams, ditches, ponds, lakes, marshes, reedbeds

Did you know? Despite being sometimes referred to as a 'Water Rat', there is no such thing - there are brown rats, black rats and water voles

Cut



Otter

Diet: Fish, waterbirds, amphibians and crustaceans

Wetland adaptations: Webbed feet; dense fur to keep them warm; can close their ears and nose when underwater

Classification: Vertebrate - Mammal

Habitat: Lakes, rivers, streams, coasts

Did you know? After disappearing from large parts of the UK numbers are growing due to improved water quality



Cut

Grass snake

Diet: Amphibians, fish, small mammals and birds

Wetland adaptations: Have developed very strong swimming technique

Classification: Vertebrate - Reptile

Habitat: Ponds, lakes, grassland, woodland

Did you know? Grass snakes are Britain's largest reptile

Cut



Pond skater

Diet: Small insects

Wetland adaptations: Have water-repellent hairs on the bottom of their feet, enabling them to walk on the surface film of the water. They hunt by detecting vibrations in this film

Classification: Invertebrate - Insect

Habitat: Ponds, lakes, ditches and slow-flowing rivers

Did you know? Pond skaters can actually skate, jump and fly



Cut

Daphnia (water flea)

Diet: Plants, bacteria

Wetland adaptations: Antennae have developed for use in swimming

Classification: Invertebrate - Crustacean

Habitat: Lakes and ponds

Did you know? They are transparent. You can even see their heart beating inside them

Cut



Water hoglouse

Diet: Decaying animals and plants

Wetland adaptations: Its gills are at the back of its body, allowing it to breathe when its head is buried in mud

Classification: Invertebrate - Crustacean

Habitat: Ponds and ditches

Did you know? The water hoglouse is closely related to the woodlouse

Cut



Cut

Dragonfly

Diet: Small insects

Wetland adaptations: Bullet-shaped body allows fast change of direction

Classification: Invertebrate - Insect

Habitat: Ponds, lakes, canals and ditches

Did you know? Dragonflies have been around for 300 million years

Cut



Ramshorn snail

Diet: Plants

Wetland adaptations: Can trap and store air inside their shells

Classification: Invertebrate - Mollusc

Habitat: Ponds

Did you know? Their name comes from the shape of their shell which resembles a ram's horn



Cut

Pond snail

Diet: Plants

Wetland adaptations: Have a respiratory tube that acts like a snorkel so they can breathe without coming to the surface

Classification: Invertebrate - Mollusc

Habitat: Rivers, lakes and ponds

Did you know? It is thought to have brilliant learning abilities and the snail's memory has been widely studied by scientists

Cut



Sludge worm

Diet: Bacteria

Wetland adaptations: Can breathe through their skin

Classification: Invertebrate - Worm

Habitat: Ponds, lakes, rivers

Did you know? They can survive in heavily polluted water

Fold



Cut

Leech

Diet: Fish, freshwater snails, tadpoles, worms

Wetland adaptations: Can breathe through their bodies

Classification: Invertebrate - Worm

Habitat: Ponds and streams

Did you know? Many leeches feed on the blood of other animals (without killing them)

Cut



Fold

Water spider

Diet: Insects, crustaceans, tadpoles and smaller fish

Wetland adaptations: Traps air in the hairs on its body enabling it to breathe underwater

Classification: Invertebrate - Arachnid

Habitat: Ponds, lakes, very slow-flowing streams

Did you know? The water spider is the only spider in the world that spends its life under water



Cut

Great raft spider

Diet: Invertebrates, small fish, water spiders

Wetland adaptations: Hairy legs enable them to walk on the surface of the water

Classification: Invertebrate - Arachnid

Habitat: Ponds, ditches, bogs

Did you know? Great raft spiders have been known to hunt underwater by running down the stems of plants to reach their prey

Cut



Greater water boatman

Diet: Invertebrates, tadpoles and small fish

Wetland adaptations: Hind legs have developed into paddle shapes to aid swimming

Classification: Invertebrate - Insect

Habitat: Ponds, ditches and canals

Did you know? The greater water boatman can trap air underneath its wing cases so it can breathe under water

Cut