

# Who eats who?

## Food chain 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 CO<sub>2</sub>, 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 to discover how all life on earth is interlinked through food chains.

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

### Stuff you need:

- Set of 20 wetland wildlife cards
- Set of food chain cards  
(see final pages of this document)

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

## Indoor activities

(30 minutes)

### What do different animals eat?

Just like us, all animals need to eat to survive.

### Why do animals need to eat?

- Animals need food to give them energy, to grow and to stay healthy.
- Take the wetland wildlife cards and lay them out picture side up.
- Ask your child to sort them according to what they eat (there is no right and wrong answer at this stage, it's just to start them thinking about how we can group animals according to what they eat).

## Q Do you know what we mean by herbivores, carnivores and omnivores?

- If your child is unsure, read through the following information together, explaining the difference between carnivores, herbivores and omnivores.

### Key word: **CARNIVORE**

An animal that eats other animals.

### Key word: **HERBIVORE**

An animal that eats plants.

### Key word: **OMNIVORE**

An animal that eats both animals and plants.

- Get your child to sort the animals into the above three groups. Turn each card over and look at what it eats. Were they correct?

## Food chains

## Q Do you know what we mean by a food chain?

### Key word: **FOOD CHAIN**

A food chain shows how each living thing gets food and how energy is passed from creature to creature. They are displayed using arrows. To get the arrows the right way round you can think of the arrow as meaning 'is eaten by'.

e.g. **POND WEED > POND SNAIL > FROG > KINGFISHER**

The pond weed is eaten by the pond snail. The pond snail is eaten by the frog. The frog is eaten by the kingfisher.

- Use the wetland wildlife cards, along with the food chain cards, to produce a food chain that starts with pond weed.
- What is the largest number of animals your child can include in a single food chain? Use the labels to show whether each animal is a herbivore, carnivore or omnivore.
- If your child enjoyed this activity, you can do it more than once, using different animals each time.

## Take it outside:

(30 minutes)

- Go to a place outdoors.

### **Q** What animals can you see?

What are they eating / what do they eat?

Are they herbivores, carnivores or omnivores?

- For each animal you see, get your child to think about where it might come in a food chain.

### **Q** What does it eat? What eats it?

- Your child could create their own food chain from the animals they see.

### **Q** What would happen if one of these animals disappeared from this area?

What could make this happen? How would this make you feel?

What do you think you could do to stop something like this happening?



@WWTWorldwide



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

# 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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Fold



Cut

## 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

## 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

Fold



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



Fold

## 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



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



## Water spider

**Diet:** Insects, crustaceans, tadpoles and smaller fish

**Wetland adaptations:** Traps air in the hairs on its body, which it takes down to fill a 'diving bell' web

**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

Fold



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



Fold

## Greater water boatman

**Diet:** Invertebrates, tadpoles and small fish

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

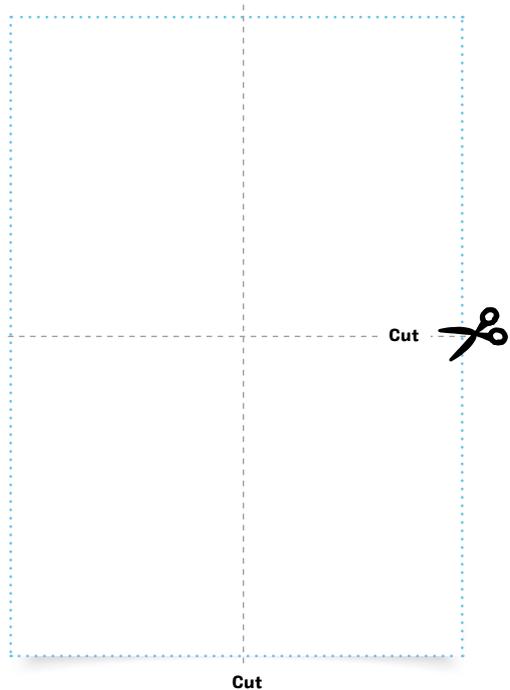
**Classification:** Invertebrate - Insect

**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

# Food chain cards

- To make the cards, cut along the dotted lines.



Cut

Cut



Cut

**Carnivore**

Cut

**Omnivore**

Cut

Cut

**Carnivore**

Cut

Cut

**Omnivore**

**Carnivore**

Cut

Cut

**Omnivore**

**Carnivore**

Cut

Cut

**Omnivore**

**Carnivore**

Cut

**Omnivore**

**Herbivore**

Cut



Cut

**Herbivore**

Cut



Cut

**Herbivore**

Cut



Cut

**Herbivore**

Cut



Cut

**Herbivore**

Cut



Cut