

Science week!









BIOLOGY

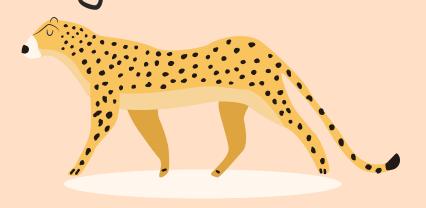


Living things and their habitats



Animals, including humans







This week, you will be...

- Constructing and interpreting <u>food chains</u>, identifying producers, predators and prey;
- Recognise that environments can change and that this can sometimes be dangerous for living things.
- Recognising that living things can be grouped in a variety of ways;
- Exploring and using <u>classification</u> keys to help group, identify and name a variety of living things in their local and wider environment.
- Identifying how animals and plants are <u>adapted</u> to suit their environment in different ways;
- Recognising that living things produce offspring (young) of the same kind, but normally young vary and aren't identical to their parents.



What if we ate insects?



How would you produce enough of them to eat? How would you prepare them? would you like eating them?



What if we ate insects?



we need <u>protein</u> in our diets and much of that protein comes from eating animals and products from animals.

But as the world's population increases, it will be harder to provide enough protein for everyone if we continue to rely on animal products for most of it, so we need to consider other sources of protein.

Insects are eaten in many cultures, considered a delicacy and are part of the everyday diet.

Did you know... that for the same mass, insects provide much more protein than red meat?



What if you had teeth like a snake?



what would you look like? would you be able to talk? would it be difficult to eat? would you have to change what you eat?



What if you had teeth like a snake?



Most snakes have teeth, although the number and arrangement is different in each species.

They normally curve backwards and are used to drag food down the throat rather than for chewing. As snakes cannot chew their food, some can even separate their jaws in order to eat large prey.

Some snakes have fangs; these are hollow teeth that inject poison, called venom, into their prey.

Focus for today will be...



???





Focus for today will be...

Food chains



Web of Wildlife - Food chains key words worksheet

Key ward	What I think it means	What I've learned	Example
Herbiware			
Carnivare			
Omniv.are			
Predatar			
Pney			
Praducer			
Cansumer			
Primary .cansumer			
Secandary .cansumer			
Tertiary .cansumer			
Apex predatar			
Scavenger			







Food

Why do animals eat different things?



Start by thinking about any pets you have... why do animals need to eat food?

Think of 3 different animals. <u>What</u> do they eat? <u>Where</u> do they live?

How could you find out what foods different animals eat? How could you group the animals?

How are the animals in each group similar?



Food chains

Why do animals eat different things?



Animals, including humans, need to eat food to supply their bodies with <u>energy</u> and to <u>build</u> <u>new tissues for growth and repair</u>.

Some animals only eat other animals and these are called <u>carnivores</u>. Carnivores are often <u>predators</u>, so hunt and catch their <u>prey</u>, but could also be <u>scavengers</u>, such as vultures, which eat dead animals.

<u>Herbivores</u> are animals that eat only plant material. Horses, cows and rabbits are herbivores.

Omnivores eat both animals and plant material. Dogs, hedgehogs and some birds are omnivores.

The <u>teeth and digestive system</u> of an animal are <u>adapted</u> for the diet it eats. For example, many carnivores have sharp teeth for biting and tearing flesh. The diet of an animal also depends on where it lives, its <u>habitat</u> and if it is domesticated. For example, a wild cat eats small mammals and birds, but a pet cat eats cat food (and possibly the occasional unlucky bird or mouse!)

web of wildlife





Food and food chains

- · All living things need food to survive.
 - o organisms obtain their food in different ways.
 - Some animals eat plants, some eat other animals.
- The feeding relationships between animals and plants in a habitat can be described with a food chain.

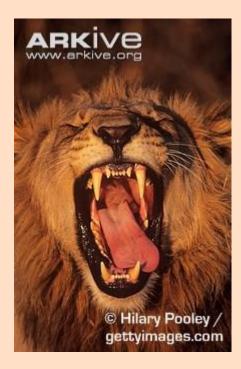






Can you think what these words mean?

PREDATOR



Lion

PREY



Thomson's gazelle

Can you think what these words mean?

Carnivore



Cheetah

Herbivore



Koala

HERBIVORE:

an animal which only eats plants.





Koala Rabbit

CARNIVORE:

an animal which eats meat (other animals).





Cheetah Fox

what about this word?

OMNIVORE



OMNIVORE:

an animal that feeds on both plants and other animals.

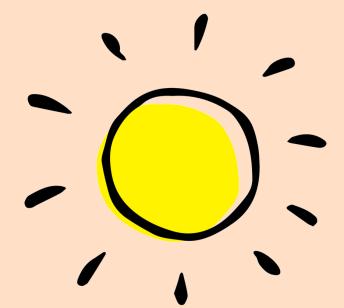




Can you think of any animals that <u>eat plants?</u>

Can you think of any animals that <u>eat other</u> animals?

How do plants get their food?

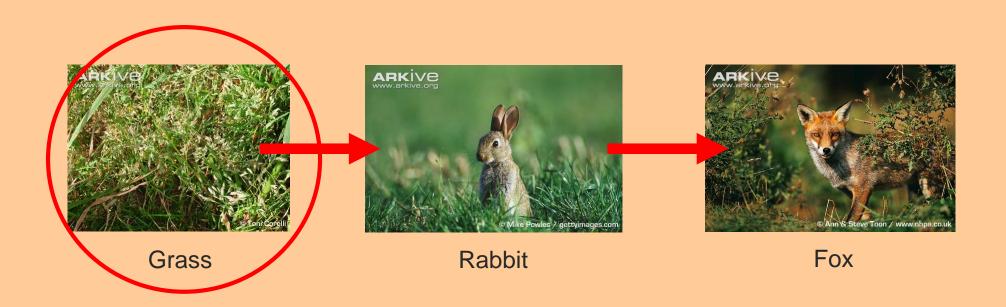




what is a food chain?

• Food chains show what eats what, in a particular habitat.

· All food chains start with a PRODUCER.



what is a food chain?

PRODUCER:

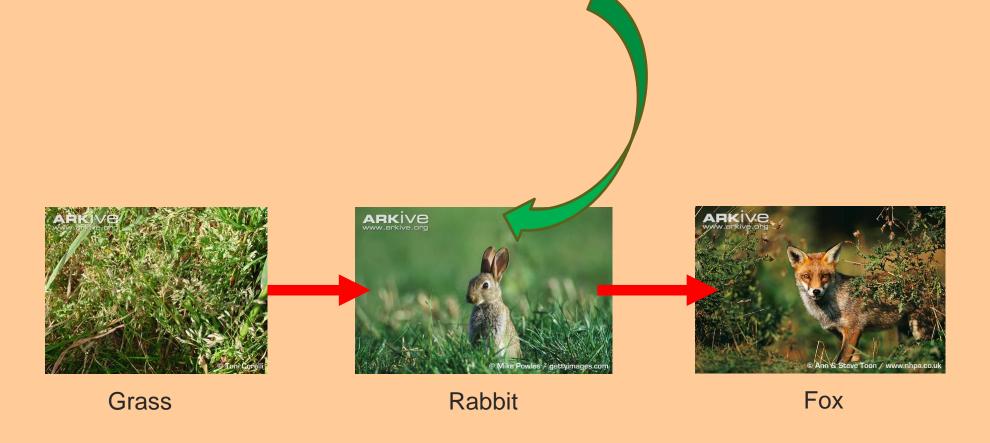
An organism, usually a green plant, that uses photosynthesis to turn sunlight, water and carbon dioxide into sugars (energy).



Grass

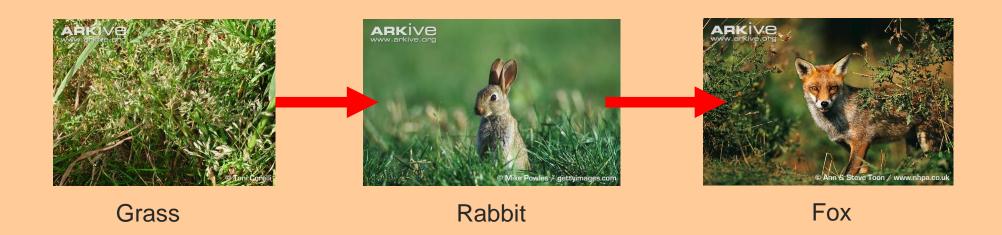
CONSUMER:

an animal in a food chain that eats (consumes) a plant, or another animal.



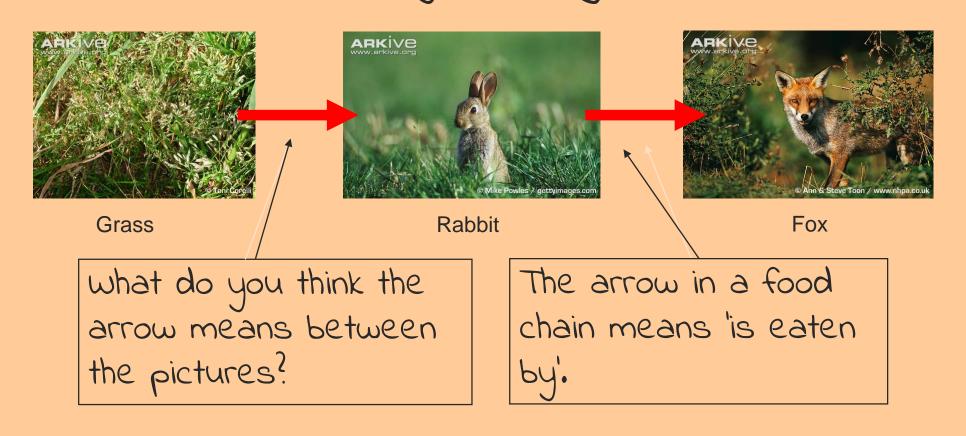
CONSUMERS:

- Dominate most of a food chain.
- Have important roles to play within an ecosystem, such as balancing the food chain by keeping animal populations at a reasonable number. Without proper balance, an ecosystem can collapse and cause the decline of all affected species.



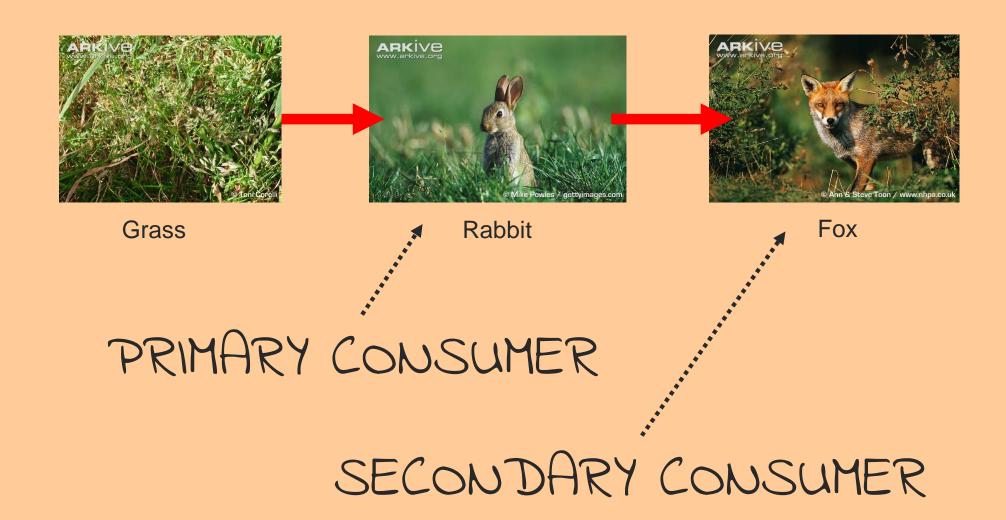
what is a food chain?

The links between animals and plants in a habitat can be shown by drawing a food chain.

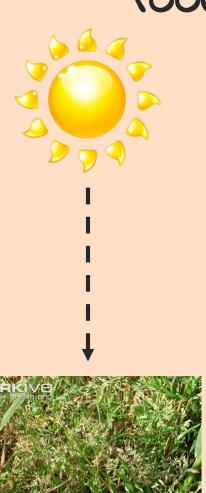


Producer PRODUCERS -> Plants are called producers because they make (produce) their own food. ARKIVE ARKIVE ARKIVE ARKIVE Can you sort these images into the ARKIVE Consumer correct group? CONSUMERS -> Animals are called consumers because

they eat (consume) other plants and animals.



A simple British woodland food chain



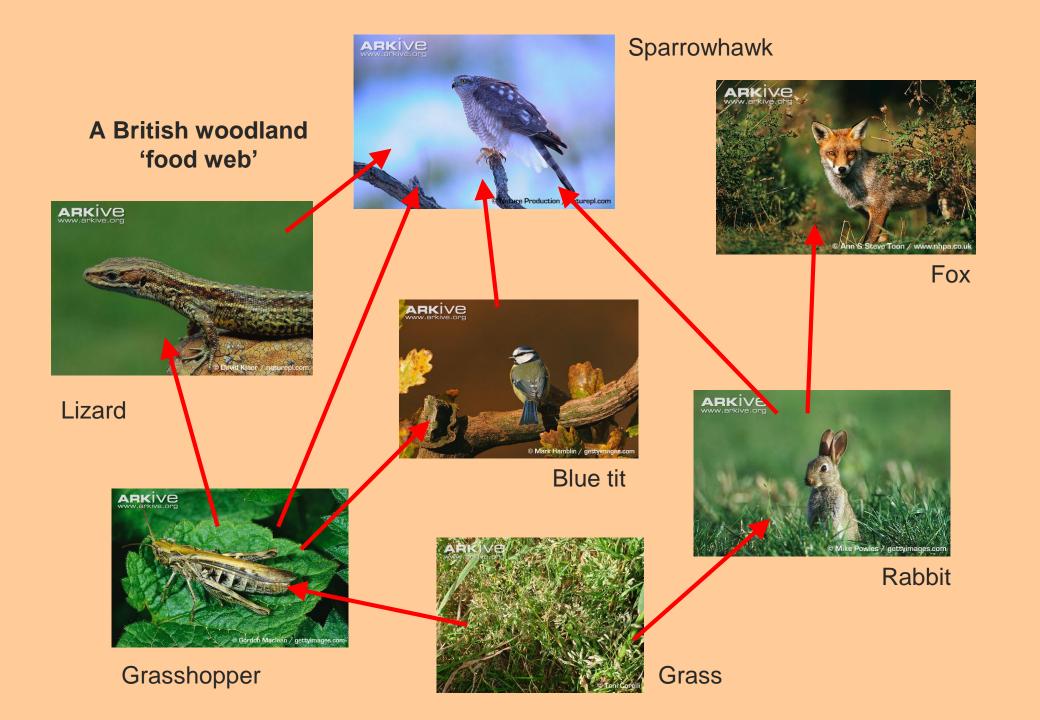
PRODUCER



CONSUMER
PRIMARY CONSUMER
HERBIVORE
PREY



SECONDARY CONSUMER
CARNIVORE
PREDATOR



Changes to food chains

- · Animals and plants depend on each other for survival.
- . This is known as INTERDEPENDENCE.



Common toad eating young grass snake



Grass snake eating common toad

• If something changes at one level in a food chain, it can affect all other levels in the food chain too.

WHAT IF...

A pesticide killed all the grasshoppers....



Sparrowhawk



Grasshoper

...what would happen to everything else in the food chain?

Blue tit

Grass