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opening extract from

How the World Works

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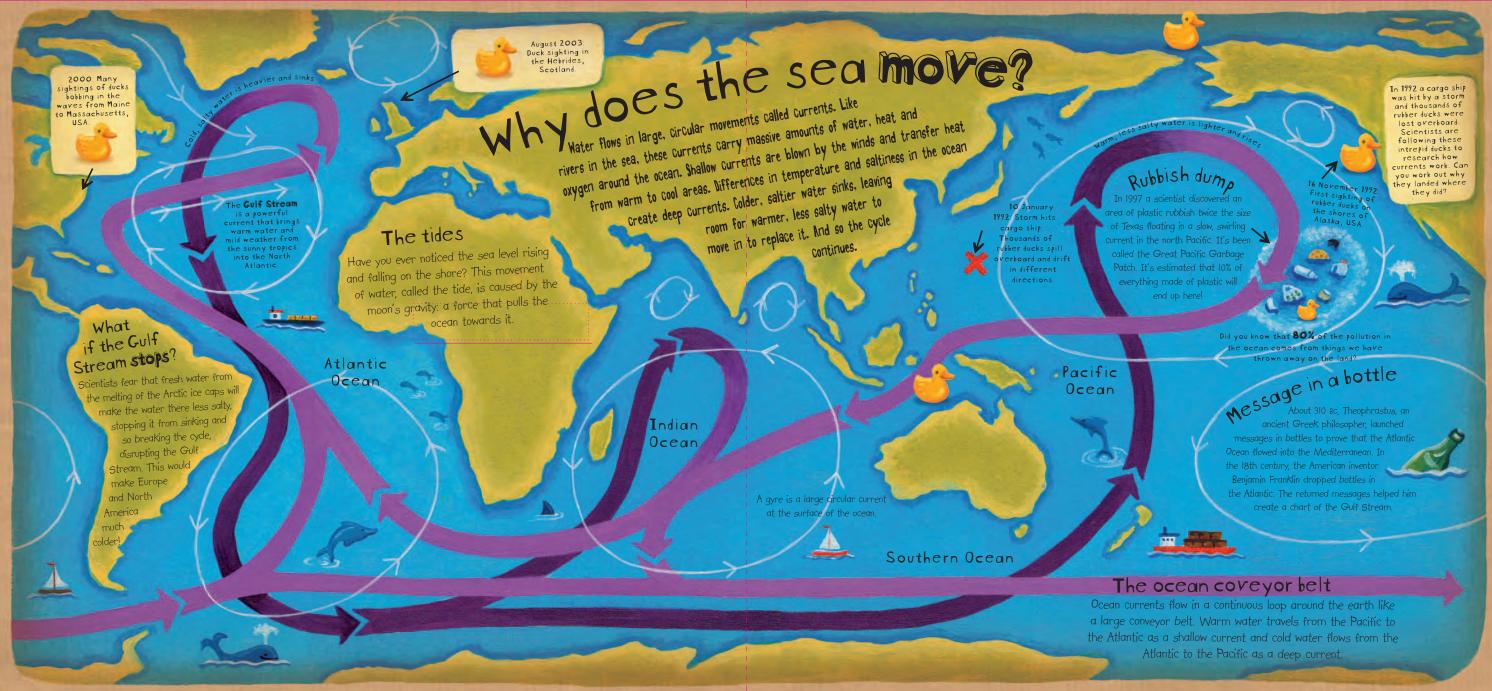
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What is a food chain?

A food chain is a series of living things that depend on each other for food. All plants and animals, including us, could one day be food for something else. Plants capture their energy from the sun, whereas animals eat plants or other animals as a source of energy. Dead plants and animals are food for fungi and bacteria.

The food pyramid

Hmmm... What would happen if there were as many birds as caterpillars? Don't' forget! Birds eat lots of caterpillars!

This shows how energy is passed on as one living thing eats another. Energy is lost at each step of the food chain as animals use Sparrows it to grow, move around or stay

producers

The food chain starts with a producer, usually a green plant. Plants use energy from the sun to produce their own food.

Food

webs

Most species eat

different kinds of food,

so they fit into

different food chains.

Together, all the food

chains in a habitat

form a food web.

Here is a woodland

food web. It could

contain thousands

of other different

species. Could

you be in this

food web?

is eaten by the.



A consumer is a creature that eats something.

which produces nutrients for the

What happens if you spray pesticides to get rid of the caterpillars that eat your plants? There'll be no food for the rest of the food chain!

secondary consumer is eaten by the.

Primary consumers, such as caterpillars, rabbits and cows. only eat plants. They are also called herbivores.

Secondary consumers, such as birds, spiders and sharks, eat the primary consumers. They are also called carnivores, which means 'meat eaters'.

When living things die, they become food for decomposers. Fungi and bacteria break down dead matter and return nutrients to the soil, helping new plants to grow.

becompose,

is eaten by the

Tertiary consumers eat secondary consumers. For example, a bird of prey might eat another bird that

has eaten a caterpillar.

of any other omnivores?

tertiary consume

Wait a minute... Don't some animals eat both plants and animals? Yes! Like bears and pigs, humans are omnivores, meaning we eat everything. Can you think

what is bioaccumulation? (not as complicated as it sounds!)

is broken down by the.

Factories and farms can release poisonous substances into the environment. These build up along the food chain, as bigger animals eat lots of smaller ones that eat lots and lots of plants. Animals cannot get rid of these substances quickly. Instead they build up in their body fat. So a polar bear ends up with more poison

> in its body than any other creatures that has been

eaten along the food chain.







Did you know? When you eat a burger, you get a tiny tiny portion of the sun's energy that went into the grass that went into the cow that went into your burger.

