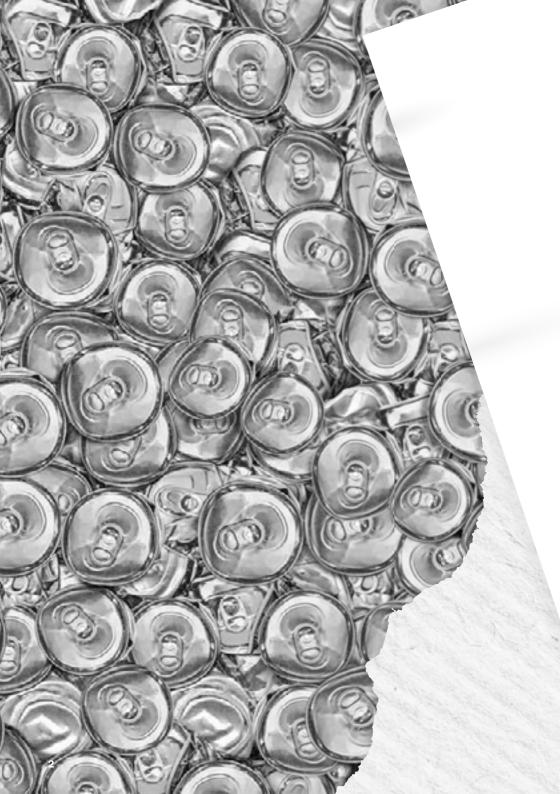
About our environment

Activity book



Name Date





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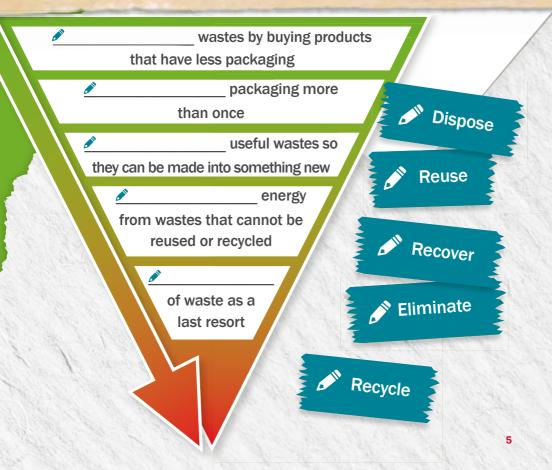
Fill in the blanks



Fill in the blanks using the words provided below.

Almost everything we buy is wrapped or contained within some kind of packaging. To prevent useful packaging wastes such as paper, cardboard, metals and plastics being taken to a landfill as rubbish, there are some simple guidelines we should follow. These guidelines are called the Waste Hierarchy and they help us prioritise how we manage wastes at home, school and work.

Do you reuse and recycle your wastes at home and school?



Bright ideas

--

Ideas to reuse everyday waste materials in your home.

Turn a cereal box into a magazine holder







Turn toilet rolls into a pencil holder







Guess the words



Can you fill in the missing words?

Turn off	🧨 when you le	eave the room
to save power.		
Turn off the TV and		when you are finished
with them to save power	r.	
Turn off the tap when _		
to save water.		
Use both sides or recycl	e	_ at home and
school to help save tree	S.	
Ride your	or	
to school to help keep t	he air clean.	
consoles	brushin	ng teeth bike
paper	ights	walk
Can you unscramble the into new things?	e following items that	can be recycled
HLNCOTGI	C	
OKBOS	В	
PACTILS TLBOETS	P	<u>B</u>
LNMIAUIUM NASC	A	C

Wordsearch



Can you find the words hidden below?

R C M н Ε 0 Ν Ν Н K н R M Α Q P N R В C C G E P Н L Н T W C L C Ε E ı L Ν Ε Т M Α M Y 0 Α Y R R N Н Т R C C X S Z L Т Α R 0 R Ε S T Q Н F L N V L Ε C Т D M R E В 0 T Z M Ε В U M P P I Ν C 0 R S 0 1 E G F S S 0 В Ν W W Α B D N N M Z V T P Α C L Ε Т G R T C 0 S C T В 0 M P 0 S Т R Ν Т S A P R S L T D N E W P Ε W E R E T Q D Z C C S T E Y L 0 M П M П S L D N K C A N S R M 0 Q R C D Z E S K E H A Z 1 N Y G M A G Y N S F T Q D R T H 0 S Т E R E U C S X G Z D B N R D E Y





Climate change



When scientists talk about climate change, they are usually referring to a build-up of man-made gases such as carbon dioxide and methane in the Earth's atmosphere that trap the Sun's heat similar to the glass in a greenhouse. The build-up of these 'greenhouse' gases have caused changes in weather patterns around the world. In recent years there have been many extreme weather events including, storms, flooding and, of course, the melting of glaciers and the polar ice caps due to higher temperatures.

Greenhouse gases can occur naturally, but our use of fossil fuels (fuels formed underground over millions of years) like coal and oil has increased the volume of these gases in the Earth's atmosphere to levels that are now causing harm. To prevent this problem getting worse, governments from around the world are taking steps to reduce our use of energy from fossil fuels.



Changes

- Melting ice caps.
- to habitats Water level changes for amphibians and reptiles.
 - Damage to forest and woodland areas.



Warmer oceans

- Lead to strong storms.
- Greater evaporation and change in habitats. to local species.



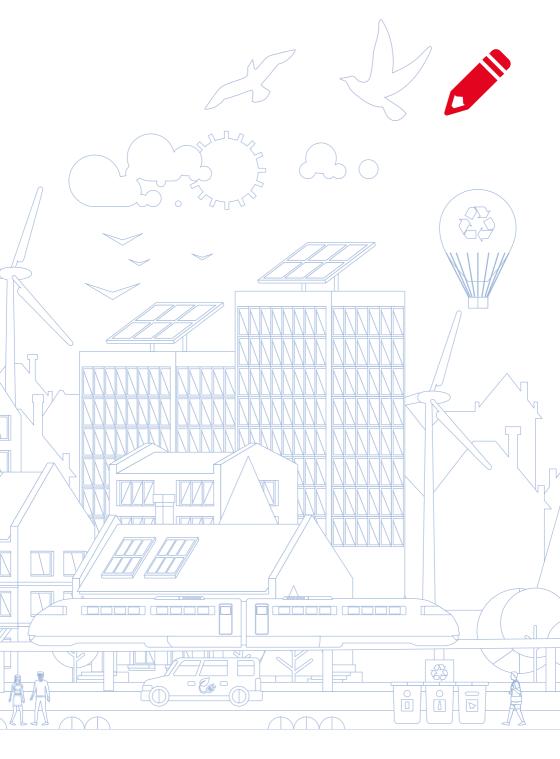
Warmer climate

- Leads to melting of the ice caps, which causes.
 loss of habitats and rising sea levels.
- Increased risk of woodland/bush fires.

Colouring-in activity pages

Colour-in the environmentally friendly activities and sources of renewable energy.





Deforestation and other problems



Deforestation

The Earth's forests are very important to all living things on the planet, including us. They absorb enormous amounts of carbon dioxide, which is a gas that causes climate change, and they are also home to millions of species of animals, plants and insects. Unfortunately every day large areas of forest are cleared to make way for farms, roads and new settlements. This 'deforestation' is very harmful to the environment and is leading to the destruction of habitats and the species that rely upon them.

Overfishing and bycatch

Large nets are sometimes used to catch fish for us to eat. Overfishing occurs when too many fish are caught and removed from our oceans, lakes and rivers. Scientists believe that overfishing can be very harmful to other animals and plants that also live in or near the affected areas.

The term bycatch is used to describe unwanted fish and other animals that get caught accidentally. Sadly every year many dolphins, porpoises, turtles and sharks die after getting accidentally tangled in nets.

Water scarcity

Did you know that 663 million people do not have access to safe water? Water is needed for so much more than just drinking. We also need water for sanitation (washing and toilets), farming, cooking and manufacturing.

Illegal wildlife trading

Many species of wild animals are killed by poachers to sell parts of them such as their tusks or fur. Lions, elephants and rhinos are all at risk of becoming extinct within your lifetime!

Complete the words



Can you complete the words to find out which environmental issues are damaging the earth?

Fact sheet

- It is believed that three rhinos a day are poached in Africa and only 3,200 tigers are left living in the wild.
- The Amazon rainforest is the world's biggest rainforest and it is home to over 5 million species of animals, plants and insects.

For more information, visit the World Wildlife Foundation at www.wwf.org.uk



What is energy?



Everything we do requires energy. We need energy to walk, to play and to study. We also need energy to keep us warm and power the lights and computers at home and in our schools.

Energy cannot be destroyed, it can only change form. Below are some examples of different types of energy:

Kinetic - Anything that moves has this kind of energy. Kinetic energy generated by the wind and the movement of waves in the sea can be used to produce electricity.

Thermal - We generate this form of energy when we exercise. Many forms of fossil fuels are burnt to produce thermal energy in order to generate power.

Radiant - Radiant energy means light. Light from the Sun helps plants grow. This is known as photosynthesis. Radiant energy can also be used to generate electricity.

Chemical - Our bodies create this kind of energy when we eat.

Sound - We produce sound energy when we talk or play an instrument.

It isn't always possible to choose whether the energy we use at home, school and work is from renewable sources. However, there are some simple things that we can all do to combat climate change. These include:

- Turning off lights and heaters in rooms that we are not using.
- Not leaving televisions, games consoles, computers and other electrical devices on standby.
- Replacing old electrical appliances when they go wrong with newer, more efficient models.
- Using our cars less by walking, cycling or using trains and buses more often.

For more great ideas, puzzles and information please visit www.childrensuniversity.manchester.ac.uk

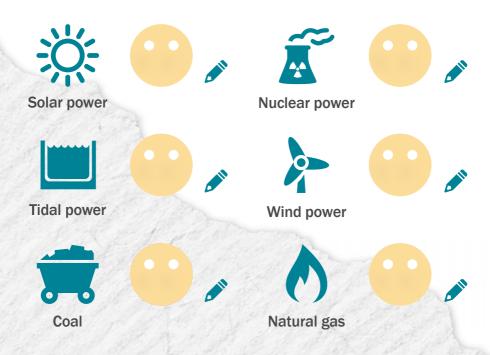
Renewable or non-renewable sources of energy



Energy can be produced by renewable and non-renewable means. Non-renewable uses fuel that is in limited supply and cannot be replaced.

Sources of energy that never run out, like solar energy from the sun, are called renewable. These tend to be better for the environment and help us combat climate change.

Put a smiley face next to the renewable types of energy and a sad face next to the non-renewable.



Crossword challenge



Using what you have learnt from the last two sections of this Environmental Activity Book, can you work out the clues to complete the crossword challenge?

1			ı				2					3	
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		7		8									
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				9									
							2.	-	-	All .	ene	røv ca	omes
	10					•		fron	n the	sun	0.10	· 67 ° (311100

Clues

- These animals are hunted for their tusks
- 5. _____ change is melting the ice-caps
- These animals are often captured accidentally in fisherman's nets
- 10. ____ is a fossil fuel that is mined from the ground

3.	Deforestation	is	cutting		
	down of				

- 4. The world's biggest rainforest is the
- Walk, get the bus or _____ to school reduces our greenhouse gas emissions
- 7. This animal is hunted for its horns _ _ _ _
- 8. ____ power comes from flowing water

Biodiversity **2**0

About Biodiversity



Biodiversity describes all the different species of animals and plants on earth and their habitats. As discussed earlier in the booklet, climate change is affecting biodiversity.

Scientists have discovered 87 million species of plants and animals on our planet! However, more species are being discovered all of the time.

Many species are dependant on each other to live.

If the environment is damaged, the delicate balance of life is disrupted, which can often cause harm to other plant, insect and animal species – it can even affect us!

Before we build somewhere we always consider the animals and plants that already live there.

To safeguard the environment, Kier do the following:



Use site surveys to understand what animals, plants and insects need to be protected.



Help preserve and improve biodiversity by planting trees and creating homes for bats, birds and other creatures.



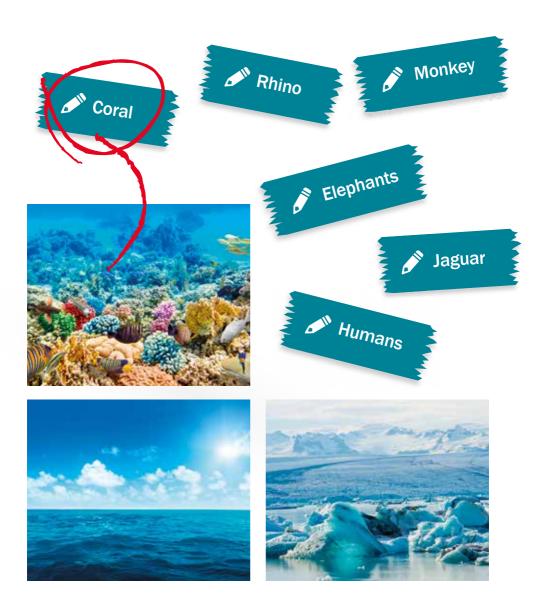
Work around certain seasons so that birds' nests are not disturbed.



Use sustainable timber from carefully managed forests.

Guess the habitat

Can you match the animal to its usual habitat?

























Fun activities

For rainy days...



Just because it's raining outside, doesn't mean you can't have fun!

Follow the link below to download a guide on how to make a fabulous gorilla mask out of waste packaging.

http://greenambassadors.org.uk/wp-content/uploads/2016/09/Gorilla_Mask.pdf

Build a castle

Using recyclable materials such as toilet roll holders and plastic bottles.

Work out your families carbon footprint

Go to www.footprint.wwf.org.uk and see how your family impacts on the environment.

For sunny days...



Nature walks

Go for a walk in a local park or nature area and make a note of how many different species of plants and animals you can see. Keep a chart and see how they change over time as they grow.

Grow your own vegetables

Ask your parents for a small area in your garden to grow your own vegetables or herbs. Use recycled food waste to create compost to really see those crops grow!

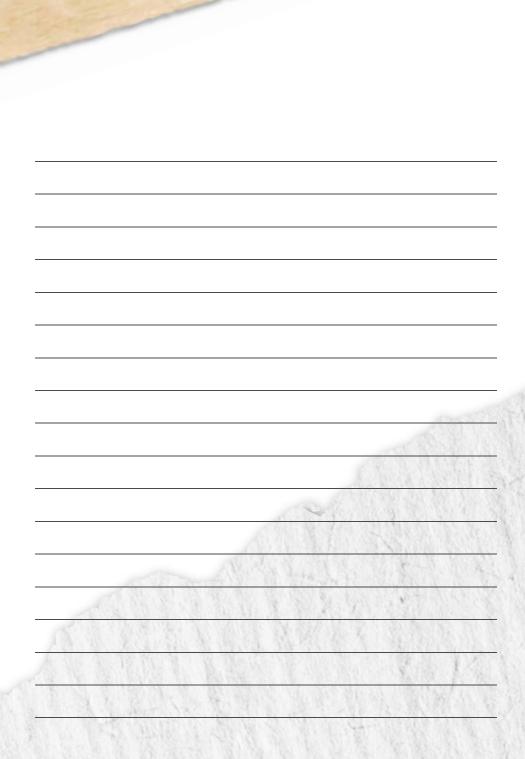
www.nhs.uk/Livewell/5ADAY/Pages/Growfruitandveg.aspx

Help the hedgehogs

Ask your parents to help make a hedgehog sanctuary in your garden!

www.hedgehogstreet.org

Notes





www.kier.co.uk











