

Recycling Activity Pack

Pack 1

Colouring 

Flash Cards

Cross Word



Spot the
Difference

?

Puzzles

?



?

Word Searches



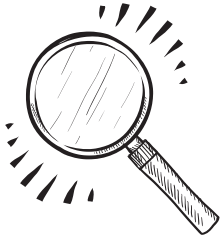
Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

sirgar.llyw.cymru

carmarthenshire.gov.wales

SPOT THE 5 DIFFERENCES





WORD SEARCH

Remember the 3 R's!



Q	Z	A	R	G	X	B	N	I	A	L	G	D	C
K	U	E	E	E	P	O	F	A	E	O	B	S	K
S	E	R	H	S	C	O	M	P	O	S	T	R	B
I	E	O	O	J	L	Y	L	N	V	N	Y	O	X
N	P	B	S	P	L	F	C	H	A	V	S	X	G
V	L	I	T	S	R	E	A	L	O	M	W	A	G
E	M	C	Q	S	B	S	P	E	E	X	B	T	L
S	Q	D	L	M	G	W	M	J	R	E	C	S	K
S	X	I	T	B	A	L	E	Q	U	Y	S	B	Z
E	T	G	O	V	V	I	D	L	K	G	H	Z	W
L	I	E	O	X	U	N	B	F	F	L	E	B	H
F	Z	S	C	P	A	E	Q	L	L	W	K	O	X
O	P	T	P	P	C	R	I	H	S	A	K	O	B
E	D	I	M	T	E	W	G	E	Y	I	P	T	T
F	G	O	J	U	W	M	J	D	E	E	C	S	U
F	A	N	S	P	R	X	D	Y	Q	C	Q	L	M
L	U	E	K	P	E	A	D	I	U	U	M	E	Q
D	T	S	R	E	C	U	Q	A	W	D	R	K	P
N	P	I	Y	K	O	S	T	W	F	E	U	P	D
T	S	A	O	A	V	J	L	N	J	R	O	D	V
O	W	O	R	M	E	R	Y	G	Z	S	Z	R	B

AEROBIC DIGESTION
 BOKASHI
 BOOT SALE
 BALE
 BLUE BAG

CADDY
 COMPOST
 IN VESSEL
 LINER
 PLANTS

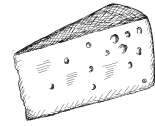
REDUCE
 REUSE
 RECYCLE
 WORMERY



WORDSEARCH



Food Recycling



F	M	L	U	T	S	E	N	O	B	A	P	T	G	T	S	P
U	R	S	E	P	E	C	O	D	M	E	T	S	J	L	G	E
E	O	U	C	E	T	A	X	H	A	F	E	S	L	Z	N	T
C	D	I	I	A	P	B	B	C	P	N	X	E	A	J	I	F
I	J	U	E	T	C	E	H	A	O	S	H	W	B	P	L	O
R	A	M	Q	P	P	S	G	T	G	S	R	I	A	S	E	O
R	S	O	B	B	T	E	S	N	T	S	V	E	N	S	E	D
W	O	G	R	O	D	O	E	U	A	H	I	W	A	E	P	W
X	R	E	N	T	D	T	N	L	T	R	O	B	N	R	E	E
O	A	E	F	A	D	Z	G	C	I	U	O	P	A	O	L	B
D	S	X	C	V	J	P	D	X	Y	N	J	O	S	C	B	U
E	L	O	F	I	S	H	F	I	B	M	G	O	K	E	A	K
Y	V	S	P	A	R	C	S	D	O	O	F	S	I	L	T	U
A	E	G	G	S	H	E	L	L	S	T	M	E	N	P	E	B
C	O	F	F	E	E	G	R	O	U	N	D	S	S	P	G	J
U	U	Q	J	S	O	Y	B	H	E	H	P	A	X	A	E	O
S	B	E	X	I	J	U	O	A	M	B	E	F	J	E	V	V

APPLE CORES

AVOCADO STONES

BANANA SKINS

BONES

BREAD

COFFEE GROUNDS

EGG SHELLS

FISH

FOOD SCRAPS

FRUIT PEELINGS

MEAT

NUT SHELLS

ORANGE PEEL

PASTA

PEACH STONES

PET FOOD

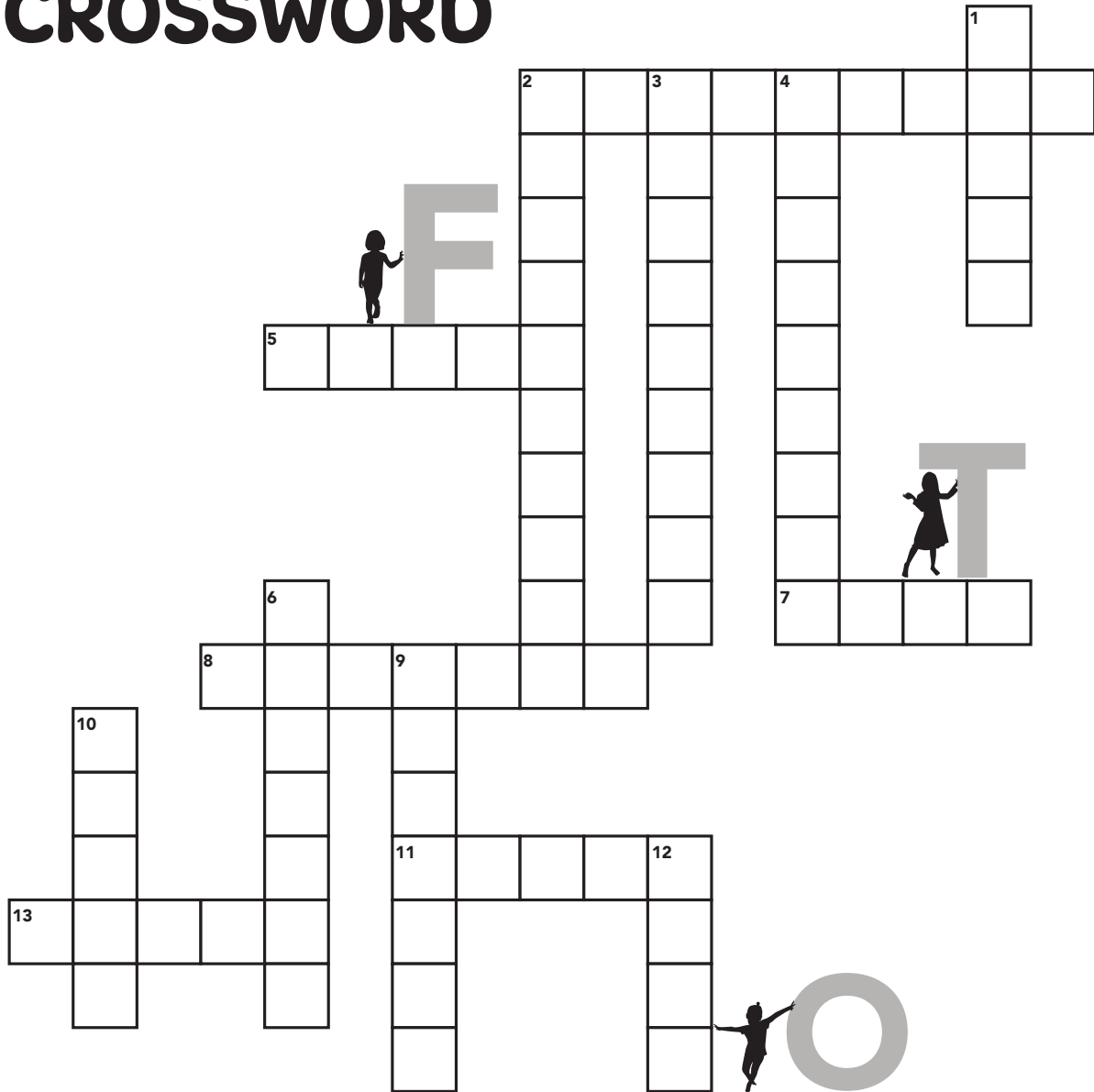
RICE

TEA BAGS

VEGETABLE PEELINGS



CROSSWORD



Across

- 2 Milk and juice cartons are mostly made of _____
- 5 _____ and cardboard can be collected in most household recycling bins
- 7 An exchange of unwanted items with friends and family that reduces waste is a _____
- 8 Worms make food and garden scraps into _____
- 11 Cans are either made of aluminium or _____
- 13 Reduce, _____, Recycle

Down

- 1 If you do this to your empty aluminium cans, you can fit more in the recycling bin
- 2 These can be recycled into pens, ink and road surfaces
- 3 National _____ Week happens in September
- 4 Lead acid _____ are found in cars and can be recycled to recover lead and plastic
- 6 Recycling these saves precious metals like platinum and gold
- 9 Use reusable bags for shopping, instead of _____ bags
- 10 How many arrows are there in a recycling symbol?
- 12 Take these off bottles and jars before recycling

Waste sorting game

Instructions

To play, match the waste item to the correct container/place to recycle or dispose.
Some items may have more than one possible answer.

Tissue Paper	<input type="checkbox"/>	Newspaper/ magazine	<input type="checkbox"/>	Margarine tub	<input type="checkbox"/>
Kitchen roll	<input type="checkbox"/>	Catalogue/Directory	<input type="checkbox"/>	Plastic punnets/ food trays	<input type="checkbox"/>
Polystyrene	<input type="checkbox"/>	Tin Foil	<input type="checkbox"/>	Shampoo/shower gel bottles	<input type="checkbox"/>
Wallpaper	<input type="checkbox"/>	Junk mail	<input type="checkbox"/>	Chocolate bar/biscuit wrapper	<input type="checkbox"/>
Tapes/dvds/cds	<input type="checkbox"/>	Envelopes	<input type="checkbox"/>	Tea bags	<input type="checkbox"/>
Pillows & duvets	<input type="checkbox"/>	Milk/juice carton	<input type="checkbox"/>	Meat (inc bones)	<input type="checkbox"/>
Toothpaste tubes	<input type="checkbox"/>	Cereal box	<input type="checkbox"/>	Cooked Food	<input type="checkbox"/>
Wooden coat hangers	<input type="checkbox"/>	Cardboard box	<input type="checkbox"/>	Fruit & veg	<input type="checkbox"/>
Nappies	<input type="checkbox"/>	Egg box	<input type="checkbox"/>	Egg shells	<input type="checkbox"/>
Crockery	<input type="checkbox"/>	Food & drink cans	<input type="checkbox"/>	Hedge clippings	<input type="checkbox"/>
Pet food trays & pouches	<input type="checkbox"/>	Aerosols	<input type="checkbox"/>	Leaves	<input type="checkbox"/>
Crisp Packets	<input type="checkbox"/>	Plastic drink bottles	<input type="checkbox"/>		
Toilet roll tubes	<input type="checkbox"/>	Yoghurt pot	<input type="checkbox"/>		

A. Compost bin

D. Blue bag

G. Household Waste

B. Garden waste bin

E. Recycling bank HWRC

Recycling Centre (HWRC)

C. Food bin

F. Black Bag

COLOURING



COLOURING



Litter and Wildlife QUIZ



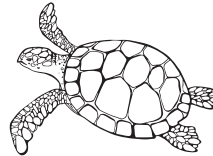
Look at the pictures of animals and think about how litter can affect them.

Now look at the pictures of potential litter hazards. Which animals are at risk from which items of litter? Match the hazard with the animal by writing the number or numbers, under the pictures of each animal.

Mouse



Turtle



Hedgehog



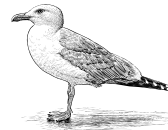
Fish



Whale



Seagull



Seal



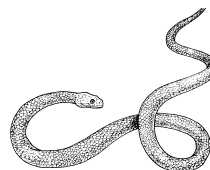
Shrew



Swan



Snake



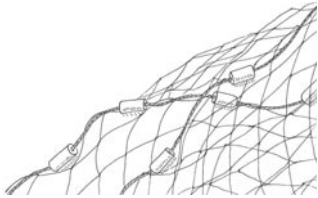
1. Plastic bottles



2. Glass bottles



3. Fishing nets



4. Fishing line



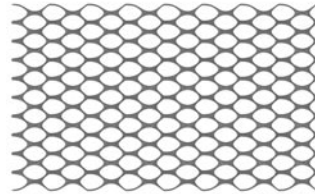
5. Plastic yokes (holds drinks cans together)



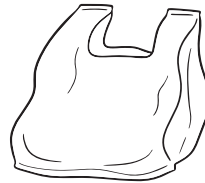
6. Crisp packets



7. Plastic mesh fencing



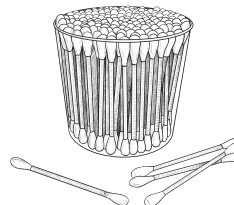
8. Plastic carrier bags



9. Drink Cans



10. Cotton buds



11. Pieces of plastic



Recycling Cards

By recycling your waste you can turn it into something new and help save natural resources. Match these cards into **groups of 3** so you have a waste item, what it can be made into and a fact for each.

Plastic Bottles



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Fleece Jacket



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Plastic

Plastic is made from oil. 25 two litre plastic bottles can be recycled to make one fleece jacket.

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Clear Glass Bottle



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Clear Glass Jar



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Glass

Glass is made from sand, limestone and soda ash. Making glass bottles and jars from recycled ones saves energy. The energy saved by recycling one bottle could power a colour TV for 15 minutes.

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Paper



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Toilet Paper



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Paper

Paper is made from trees. If you recycle paper it could be turned into newspapers or even toilet roll!

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Cardboard



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Egg Carton



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Cardboard

Paper is made from trees. If you recycle paper it could be turned into newspapers or even toilet roll!

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Steel Cans



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Paper Clips



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Steel

Steel cans are made from a metal called iron. Steel packaging can be recycled over and over again without losing its quality.

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Aluminium



↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Aluminium Cans



↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Aluminium

Aluminium is made from a metal ore called bauxite. Making an aluminium can from recycled materials uses only 5% of the energy needed to make a can from raw materials and produces only 5% of the CO2 emissions.

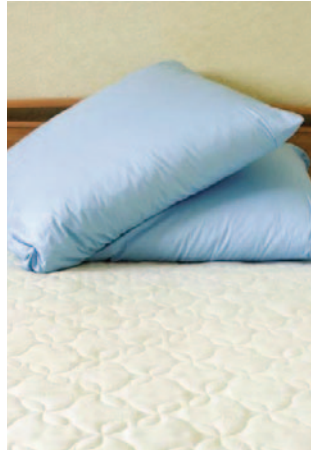
↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Old Clothes



↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Cushion Filling



↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Textiles

Textiles that can't be reused can be shredded and made into fillings for cushions, toys etc.

↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Garden Waste



↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Compost



↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Garden Waste

Composting is nature's way of recycling garden waste, including grass cuttings, twigs and leaves. The garden waste breaks down on a compost heap to make a rich, crumbly soil which can be used to help plants grow.

↻ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Plastic Milk Bottle



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Garden Furniture



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Plastic

Plastic is made from oil. Milk bottles are made from a type of plastic called High Density Polyethylene (HDPE). Plastic milk bottles can be recycled to make new garden furniture, compost bins or even new milk bottles.

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Food Waste



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Liquid Plant Food



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Food Waste

Worm composting is a fantastic and natural way of recycling food waste including vegetable scraps, banana skins and tea bags. The worms break down the food waste and produce a liquid plant food.

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Car Tyres



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Mouse Mats



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Rubber

Tyres are made from rubber. Old tyres can be recycled to make mouse mats, playground surfaces or road asphalt.

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Mobile Phones



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Gold Jewellery



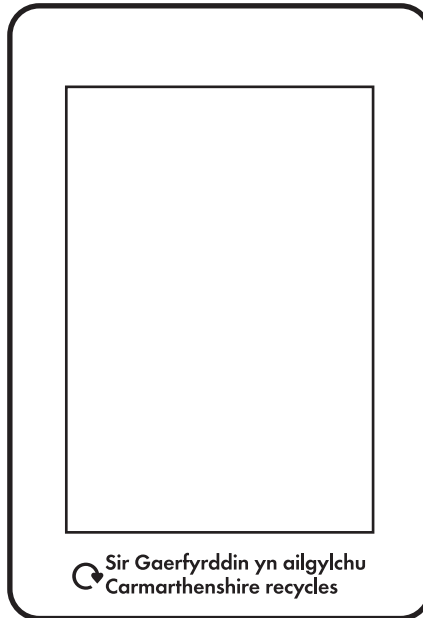
♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Phones & Games

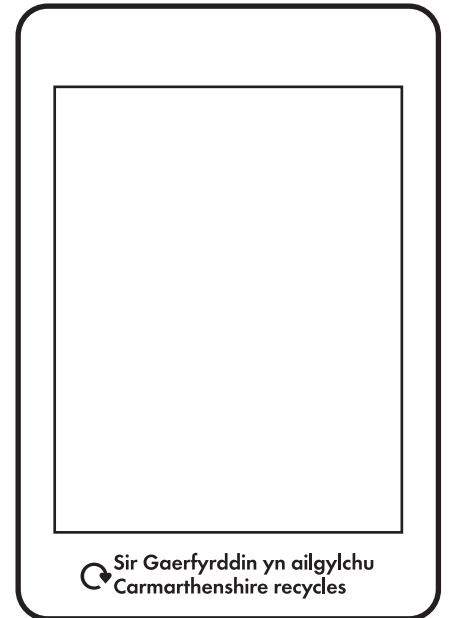
Mobile phones and games consoles contain precious metals like gold, platinum and palladium which could be made into jewellery or electrical components. They also contain zinc which is used to make ships and submarines.

♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

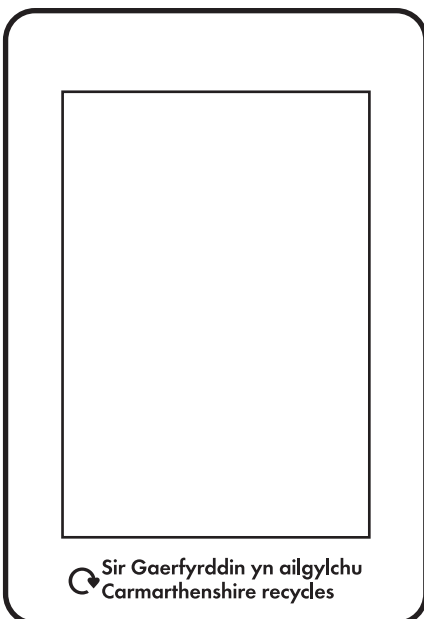
**Make your own
recycling cards:**



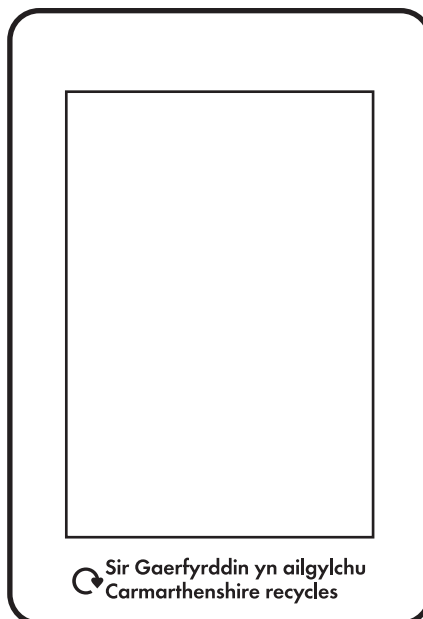
♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles



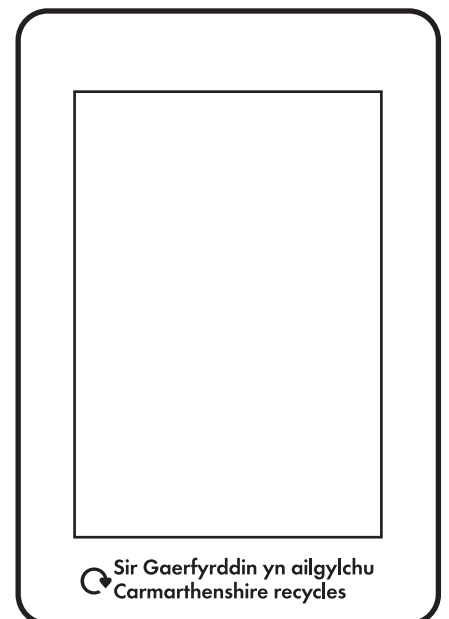
♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles



♻️ Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles

Flash Cards

Mobile phones contain precious metals such as gold, platinum and palladium, a variety of which can be recycled into other electrical components. Palladium plays a key role in the technology used for fuel cells. Phones also contain Zinc which is used to galvanise steel; it can also be mixed with copper to make brass. Ships and submarines use zinc blocks to stop rust forming.

Play this game to understand the hidden waste that results from making the every day objects we take for granted.

To play, simply put the cards in order from start to finish of the life cycle of a mobile phone.

Mine metals from the earth



Cut down trees to make card



Mould plastic parts



 Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Pump oil to make plastic



 Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Shape metal parts



 Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Load materials into lorries



 Sir Gaerfyrddin yn ailgylchu
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Pack phones into boxes



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles

Cyngor Sir Gâr
Carmarthenshire
County Council 

Put the parts together to make a phone



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles

Cyngor Sir Gâr
Carmarthenshire
County Council 

Display new mobile phones in shop window



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles

Cyngor Sir Gâr
Carmarthenshire
County Council 

Make a cardboard package



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles

Cyngor Sir Gâr
Carmarthenshire
County Council 

Plug in the charger and charge the phone



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Purchase phone from a mobile phone shop



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Make the phone calls



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Recycle the cardboard package



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Recycle the metal



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Recycle your old mobile phone



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Recycle the plastic



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

**Take phone apart to separate metal and
plastic bits for recycling**



 **Sir Gaerfyrddin yn ailgylchu**
Carmarthenshire recycles


Cyngor Sir Gâr
Carmarthenshire
County Council

Fill in the blanks

What happens to your recycling

Here in Carmarthenshire your rubbish is collected in a _____ vehicle. This means the food waste is kept separate from the blue bags/black bags.

Food and garden waste is taken to a central composting facility at Nantycaws, Carmarthen, where it is turned into _____ or soil conditioner and is available to buy at the recycling centres.

Blue bags are taken to the material's recovery facility, also in Nantycaws, to be _____. The sorted materials are then taken to processing plants to be made into new products. Both facilities are run by CWM Environmental.

It's easy to recycle and it really does make a difference. Recycling stops tonnes of rubbish being buried in landfill releasing harmful _____ gases. Your recycled material is also a valuable resource. Once it has been collected from your doorstep, it's taken away to be sorted, bailed and then transported to reprocessors to be made into new products.

The Welsh Government has set statutory targets for _____ with a 70% target by 2025 and to be a zero waste (100% recycling) nation by 2050. Local authorities that fail to meet the targets could face large financial penalties. We are currently recycling approximately 60% in Carmarthenshire.

The Landfill Allowances Scheme (LAS) limits the amount of _____ municipal waste - such as paper, cardboard and kitchen scraps - that councils are allowed to send to landfill. If councils exceed these limits, it can lead to fines.

split-bodied
compost

sorted
greenhouse

recycling
biodegradable

Answers Recycling Cards

Item	Made into	Fact
Plastic Bottles	Fleece Jacket	Plastic - Plastic is made from oil. 25 two litre plastic bottles can be recycled to make one fleece jacket.
Clear Glass Bottle	Clear Glass Jar	Glass - Glass is made from sand, limestone and soda ash. Making glass bottles and jars from recycled ones saves energy. The energy saved by recycling one bottle could power a colour TV for 15 minutes.
Paper	Toilet paper	Paper - Paper is made from trees. If you recycle paper it could be turned into newspapers or even toilet roll!
Cardboard	Egg carton	Cardboard - Cardboard is made from trees. Cardboard can be recycled to make new boxes, or even furniture, containers or dog kennels!
Steel cans	Paper clips	Steel - Steel cans are made from a metal called iron. Steel packaging can be recycled over and over again without losing its quality.
Aluminium Cans	Aluminium Cans	Aluminium - Aluminium is made from a metal ore called bauxite. Making an aluminium can from recycled materials uses only 5% of the energy needed to make a can from raw materials and produces only 5% of the CO2 emissions.
Old Clothes	Cushion Filling	Textiles - Textiles that can't be reused can be shredded and made into fillings for cushions, toys etc.
Garden waste	Compost	Garden Waste - Composting is nature's way of recycling garden waste, including grass cuttings, twigs and leaves. The garden waste breaks down on a compost heap to make a rich, crumbly soil which can be used to help plants grow.
Milk bottle	Garden Furniture	Plastic - Plastic is made from oil. Milk bottles are made from a type of plastic called High Density Polyethylene (HDPE). Plastic milk bottles can be recycled to make new garden furniture, compost bins or even new milk bottles.
Food Waste	Liquid Plant Food	Food Waste - Worm composting is a fantastic and natural way of recycling food waste including vegetable scraps, banana skins and tea bags. The worms break down the food waste and produce a liquid plant food.
Car Tyres	Mouse Mats	Rubber - Tyres are made from rubber. Old tyres can be recycled to make mouse mats, playground surfaces or road asphalt.
Mobile Phones	Gold Jewellery	Phones and Games - Mobile phones and games consoles contain precious metals like gold, platinum and palladium which could be made into jewellery or electrical components. They also contain zinc which is used to make ships and submarines.

Answers: Wildlife Quiz & Flash Cards

Mouse

1. Plastic bottles & 2. Glass bottles: Mice explore and enter bottles but can't escape from them (19 small mammals have been found in one bottle). **6. Crisp packets:** These are blown into hedgerows and trap mice **9. Drink Cans:** Exploring mice are trapped if the can is tilting upwards.

Turtle

3. Fishing nets and **4. Fishing line, 8. Plastic carrier bags** and **10. Cotton buds:** These can all harm turtles. Turtles get tangled up and become trapped in nets and fishing line. Plastic carrier bags look like jelly fish from below the water. Turtles eat jelly fish, but often eat **8. Plastic carrier bags** by mistake and this can block their digestive system. The plastic stem of a **10. Cotton bud** is another item of litter often found in the turtles.

Hedgehog

Hedgehogs have been known to get stuck in the **5. Plastic yokes** designed to hold cans together and are unable to move to feed when these get caught on other objects.

Fish

Discarded **3. Fishing nets** and **4. Fishing line** can trap fish and they can also eat small **11. Pieces of plastic** which blocks their digestive system.

Whale

Whales can ingest a vast amount of plastic from the oceans. In November 2019 a 22-foot long sperm whale was found washed up on a North Wales beach with plastic piled up in its stomach including **8. Plastic carrier bags**, preventing it from digesting its food. Discarded **3. Fishing nets** and **4. Fishing line** can also be eaten or by whales or trap the whales and prevent them from feeding.

Seagull

Sea birds eat small **11. Pieces of plastic** and often try to feed them to their young, this is very harmful to them. **4. Fishing line** is a hazard to seagulls and other birds as they get tangled up in the discarded fishing line.

Seal

3. Fishing nets, 4. Fishing line and **11. Pieces of plastic** can all harm seals.

Shrew

1. Plastic bottles and **2. Glass bottles** are the main litter hazards for shrews, trapping them and preventing them from eating. Shrews have a very high metabolic rate (HR = 1200 bpm) and can eat twice their body weight per day.

Swan

Swans often get tangled up in discarded **4. Fishing line** along lakes and ponds.

Snake

Large snakes such as grass snakes, which can grow up to 1.8m long and live for up to 25 years, can get trapped in fly-tipped materials such as **7. Plastic mesh fencing**

Correct sequence for Flash Cards

1. Cut down trees to make card
2. Mine metals from the earth
3. Pump oil to make plastic
4. Load materials into lorries
5. Mould plastic parts
6. Shape metal parts
7. Put the parts together to make a phone
8. Make a cardboard package
9. Pack phones into boxes
10. Display new mobile phones in shop window
11. Purchase phone from a mobile phone shop
12. Recycle the cardboard package
13. Plug in the charger and charge the phone
14. Make the phone calls
15. Recycle your old mobile phone
16. Take phone apart to separate metal and plastic bits for recycling
17. Recycle the metal
18. Recycle the plastic

