



AWARE

educating for e-waste recycling

Exercises on e-waste

Basic



What is e-waste?

We use and need many electronic devices every day, and as long as they are working, we don't pay much attention to them. What happens when they break? We immediately notice if a lamp burns out, our washing machine breaks or our phone smashes on the ground. A broken or unusable device or machine becomes e-waste or WEEE (Waste Electrical and Electronic Equipment).

When a big, new machine, like a washing machine or a freezer is delivered, the delivery company will often take the old device away to be recycled. Smaller devices like mobile phones and electronic toys have to be taken to an e-waste collection point and thus tend to remain stored in our dresser drawers and closets for a longer time. Do you know how many unused mobile phones or other electronic devices there are in your home?

Recycling even the smaller devices would be good, though. All electronic devices contain valuable materials that could be used again if recycled properly. When a device is recycled, it is taken apart and all the different materials it contains are separated. Responsible recycling also takes care of potentially dangerous materials that could harm the nature, animals or people if not treated properly.

It is important to recycle, but even more important to try to avoid generating waste in the first place. Manufacturing a device, even when using recycled material, still consumes energy and resources. If possible, repairing and otherwise prolonging the lifespan of a device is a good thing.



Guess which electronic product I am?

I am usually white, big and make sure your ice cream doesn't melt!

Are you a _____?

My job is to make sure you don't have to be in the dark!

Are you a _____?

I make a beeping sound when I am done and can make for example popcorn in a couple of minutes!

Are you a _____?

You can use me to make calls, take pictures, send messages, play games... That's why I'm usually taken along everywhere!

Are you a _____?



I am very handy and helpful when you want to make whipped cream or cake batter!

Are you a
_____?

If you don't want to have wet hair, I'm there to help!

Are you a
_____?

I am responsible for cleaning your clothes, towels and bedsheets.

Are you a
_____?

I can be used to watch shows, videos, movies and sometimes even playing games.

Are you a
_____?

Make your own clue and ask your friend to answer!

I am...

Are you a
_____?



Can you find 10 electronic devices?

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

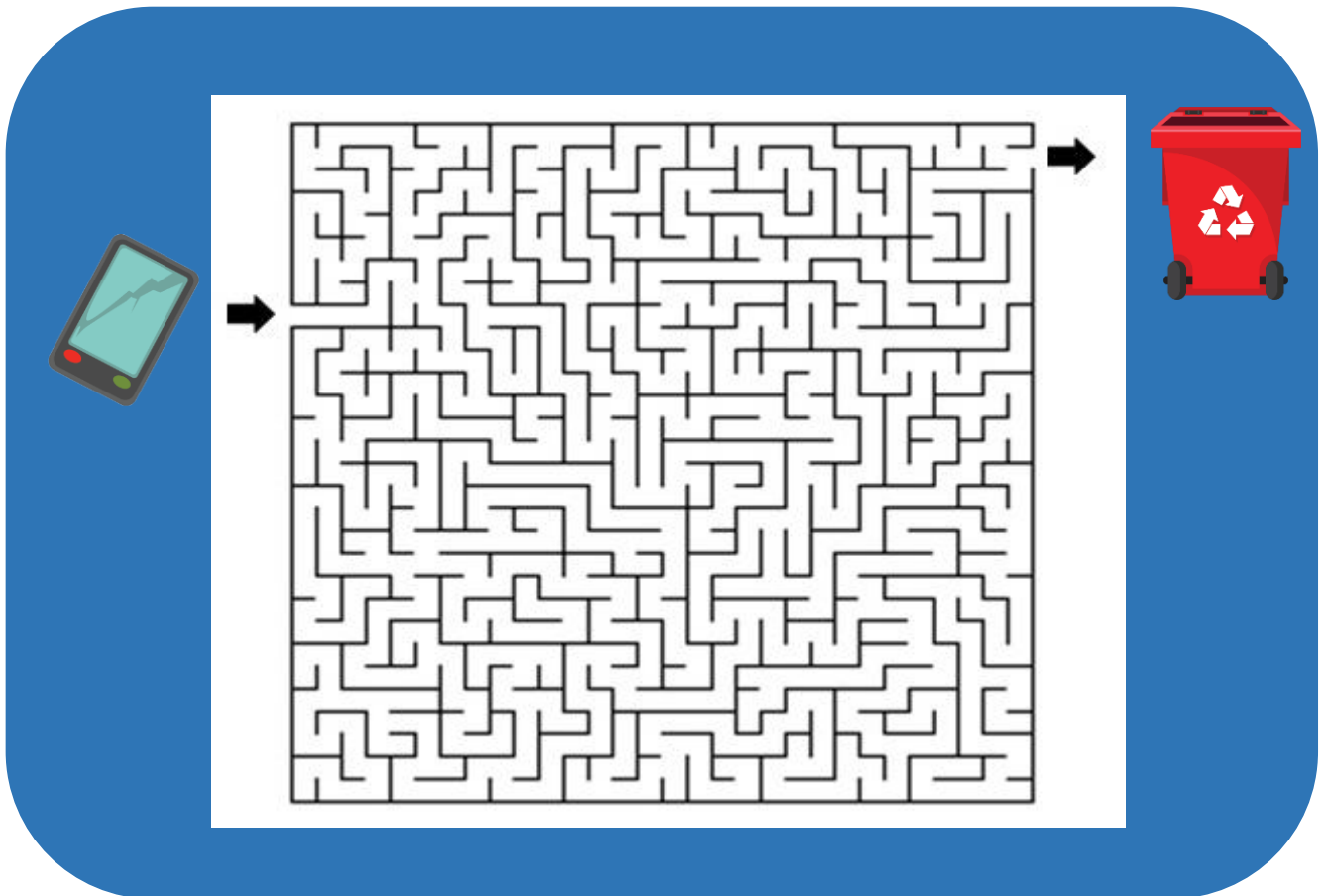
blender
 camera
 charger
 coffeemaker
 fridge

hair dryer
 laptop
 playstation
 smartphone
 vacuum cleaner



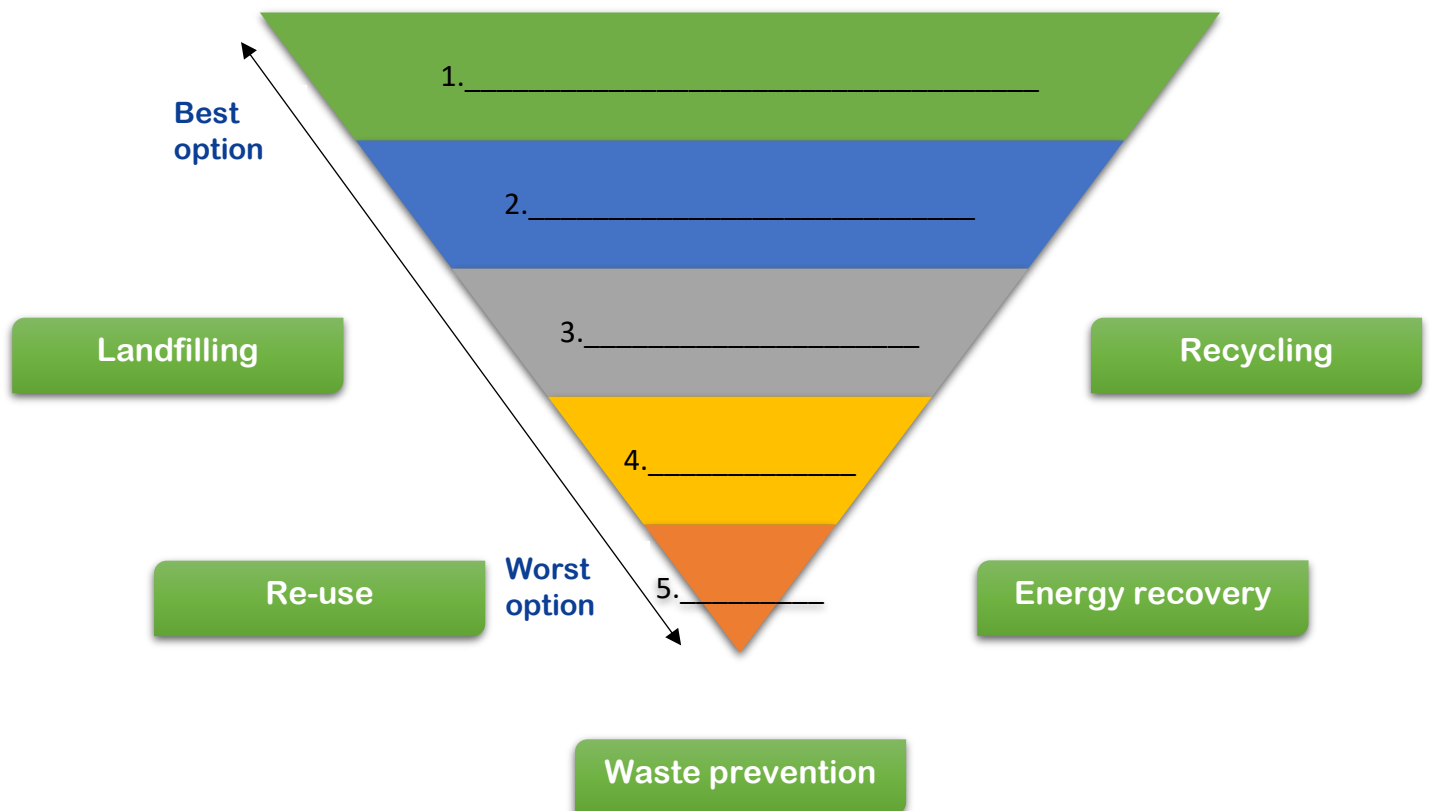
Find the path to the recycling point!

E-waste contains both valuable and scarce elements, and therefore it is important to recycle the old devices!



Fill in the waste hierarchy in the right order

In the waste hierarchy, different options for dealing with waste are listed in an order based on what is best for the environment. These are often presented in the form of a pyramid, so that that best option is at the top and the worst option is at the bottom of the pyramid. What do you think is the best option for the environment?



Materials in electronics

Electronics contain many kinds of different materials; in smartphones, you can find 50-60 different elements from the periodic table! Can you find the materials listed below?

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

aluminium

copper

iron

nickel

gold

silver

plastic

glass



Which of these products can you put into an e-waste recycling bin?

You can recognize electric and electronic devices as they contain either a power cord or a battery.



About AWARE

This content has been created as a part of AWARE project. The purpose of the AWARE project is to spread information on e-waste and circular economy among schoolchildren of different ages and teachers. For more information, please visit

<https://aware-eit.eu/>

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