

Raw and Synthetic Materials

YEAR THREE

AUTUMN 2



LESSON SIX

What does it mean to live sustainably?



Do Now – Retrieval practice

1) What is recycling?

Recycling is a process of c_____ and re_____ materials to make new synthetic materials.

2) Why do we want to avoid using raw materials too much?

Eventually, raw materials will be u_____ u____ and they cannot be replaced.

3) Are the following raw materials from 'under the ground' or from 'a living thing'?

Wood is from _____	Cotton is from _____
Copper and Iron are from _____ _____	Coal is from _____

From last cycle:

- 4) Draw a scientific diagram of an animal (remember to add labels).**



Watch the video to help us understand what sustainable development is.

<https://www.youtube.com/watch?v=RMx3bcTlxqY>





Read the passage below about living sustainably

To **live sustainably** means for us to live in a way that means humans will have enough materials which they can use to help them live in the future. To do this, we have to

use less of the raw materials that will run out if we are not careful as well as making sure that we do not fill up too much of the earth with rubbish.



What does 'living sustainably' mean?

Living sustainably means living in a way that humans will have e_____ materials to carry on living in the f_____.



What do we have to do to 'live sustainably'?

We have to use l_____ raw materials and avoid filling up the earth with r_____.



Continue reading about living sustainably

The main materials we need to use less of are **fossil fuels** (which means coal, oil and gas). These fuels are often used to make electricity, make cars and buses move, and planes and trucks move to transport food and other materials all over the world. So, **to live sustainably means** using less electricity, using cars and buses less often (walking/cycling when possible) and to try and buy food that has been grown near where you live.



What are the names of the three fossil fuels?

C_____, o_____ and
g_____.



What three things can we do to use less fossil fuels?

- 1) Use less e_____
- 2) Use c_____ and
b_____ less
- 3) Try and eat food that was
g_____ nearby



Continue reading about living sustainably

Finally, to avoid getting a build-up of too much rubbish, we should either **recycle** things we are finished with or make sure it is biodegradable. **Biodegradable** means that something will naturally rot away if it is left alone and become part of the earth. This is a good thing because it will turn into earth and not take up space like plastic would if left alone.



**What does the word
'biodegradable' mean?**

**Biodegradable means that
something will naturally r_____
away if was left alone.**



Different people have different habits. Some habits are part of living sustainably and some are not. Decide whether each habit the person has is sustainable or not:



	Sustainable	Not Sustainable
Cindy: <ul style="list-style-type: none">- Likes to buy fruit that is brought to the UK by plane- Uses plastic cutlery and then throws it in the bin- Drives in her car to work even though it is a 15 minute walk	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Bob: <ul style="list-style-type: none">- Buys most of his food from the local farmer- Only uses metal cutlery that he has kept all of his life- Rides his bike if he goes into town	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Rahul: <ul style="list-style-type: none">- Only buys food that comes in wrapping that can be recycled- Gets on the train regularly to see his grandma- Buys a lot of clothes and throws them away after, only wearing them once	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Johanna: <ul style="list-style-type: none">- Always switches off plugs and electrical equipment when they are not being used- Recycles all the plastic, glass and paper she is finished with- Grows her own vegetables in her garden	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



Which type of cutlery is best to use if we want to live sustainably?

Tick the good properties about each material and put a cross by the bad properties.

Write a conclusion as to which type of cutlery is best to use in your opinion.

Plastic cutlery

- Strong and cheap to make
- Plastic is NOT biodegradable
- Plastic is made from oil

Wooden cutlery

- Wears out the most quickly
- Wood is biodegradable
- Wood has to be used up to make wooden cutlery

Metal cutlery

- Lasts a very long time
- Metal is NOT biodegradable but easy to recycle
- It is made from metal (usually Iron)





Which type of cutlery is the best ones to use if you want to live in a sustainable way?





Can you live sustainably and drive a car?





Return to page 3 to complete the learning review.

Answer the following question in a couple of sentences:

What does it mean to live sustainably?

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