

Wider Curriculum Unit Plan for Home learning						
Subject: Science		Unit: Where does our rubbish go? How long does it last?	Year: 1			
Session						
Session 1	 What is rubbish? How long does it last? Listen to this song about what happens to our rubbish. Watch this video. What happens to food? This shows food rotting – this is also called breaking down or decomposing. How long will it take different rubbish to rot? Look at the items in resource 1. Put them in order of which you think will take longest 					
	time t Now I Make	o rot. ook at the answer table. What surprised you most? some signs to go by a bin to tell people how long different items ta				
Session 2	 Watch this video about how we can waste less food. What did you learn? Compare this video. Which video gives you the best information. – which video would you choose to share at school with year 1 and 2. Why? Think about what you and your friends eat and throw away. Add your own ideas to the table in the resources for session 2 about some ways you could do this. 					
Session 3	ReadSomeSomeMake	cling? In this clip about what to do with your rubbish and complete the quiabout what items can be recycled (see resource for session 1). In this clip about what to do with your rubbish and complete the quiabout what items can be recycled (see resource for session 1). In this clip about which items is waste that decays/ rots. To rubbish can be recycled (used again) and should go into a recycle a list of items in your home that can be recycled. In this clip about which items can be recycled and which can't.				
Session	What can we re-use? (part 1)					
4	away one e waste Make Design	an re-use items to reduce the amount of materials that we waste ar an items. For example, we can use a re-usable water bottle, instead of buying ach time. Re-using materials is better for the environment because a list of everything you can think of that is re-usable. In a reusable shopping bag that promotes the importance of protectionment (see resource below).	ng a plastic e it reduces			
Session	What can we	re-use? (part 2)				
5	 Plastic plastic Have think y You c with y 	c rubbish is something we can help with. Watch this video to find out problem. a look through your recycling at home. Find some plastic packaging you can re-use to make something ould use the idea of a plastic piggy bank (see resource session 5) or our own idea. It an item from the recycling, a pencil, your imagination!	ng which you			
Soccion		t does reduce, re-use, recycle mean?				
Session 6	Look &DesignationrecycInclude	pack over the resources below In a poster to explain everything you've learned about reducing, relating. Decide where it should go to remind about what to do with ruste pictures and sentences to explain your ideas. It a pencil and paper, colouring pencils/pens	_			

Support resources

Session 1 Put these in order – which will take longest to rot?



Type of rubbish	Time to break down	
Apple core	1 month	
Cardboard box	2 months	
Balloon	4 years	
Plastic bag	20 years	
Coffee cup	30 years	
Crisp packet	80 years	
Drinks can	200 years	
Plastic bottle	450 years	
Fishing line	600 years	
Glass bottle	1 million years	

Session 2

Food I eat write or draw	How much ends up as waste	How could there be less waste
Bowl of cereal	A few spoonfuls	Pour what I need
Banana	The skin	Put in compost
Banana	Brown bits	Eat before it goes brown Make a cake
Sandwich	Crusts	Eat everything in my lunchbox Try something new

Session 3 – What is recycling?













Making Compost

Compost is important for growing healthy crops on an allotment because it adds nutrients to the soil that are essential in supporting a range of plant functions. Many allotment gardeners choose to make their own compost, using up surplus waste. So, what will you need to make your own compost on your allotment?

Green organic matter

should make up around half of your compost heap as this will decompose quickly and help to nourish the microbes turning your waste into compost.

Examples of this include:

- · fruit and vegetables
- · uncooked kitchen waste
- · grass cuttings
- · green leaves

Try researching other green organic matter that you could compost. Compost bins come in varying shapes and sizes and can be made of either plastic or wood. Essentially, you just need a container that has a lid (this is important to prevent water creating a soggy mess) and a closing outlet at the bottom.

Brown organic matter can vary from twigs and wood chippings, brown leaves and stems to shredded paper, card and straw.

Turn your compost heap regularly to ensure the different matter is well mixed and to add air to your mixture. This is essential in making better compost.

What other brown organic matter can be composted?

Think carefully about the position of your compost bin on your allotment - too warm or cold a position prevents the bacteria turning your waste into compost while too little or too much humidity stops the micro-organisms from decomposing the waste.

It is best if the base of your compost bin is sitting on soil rather than a hard base as this will allow it to drain easily and will get the decaying process started much quicker.

Glossary

Bacteria

A form of microorganism.

Brown organic matter Matter from the remains of plants or animals high in carbon.

Compost

The substance produced through composting (the recycling of organic matter through decomposition).

Compost bin A container, often made of wood or plastic, where organic waste is recycled to make compost.

Decaying

The process whereby organic matter is broken down.

Decompose

To break down organic matter.

Green organic matter

Matter from the remains of plants or animals high in nitrogen. Microorganisms A microscopic living thing.

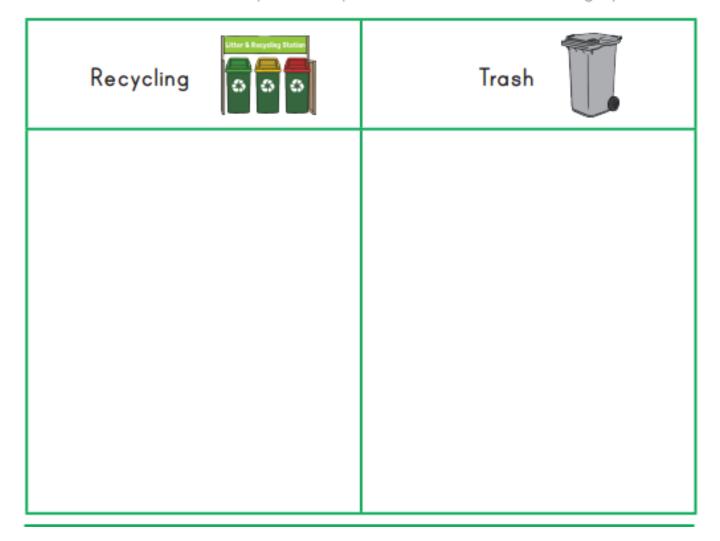
Nutrients

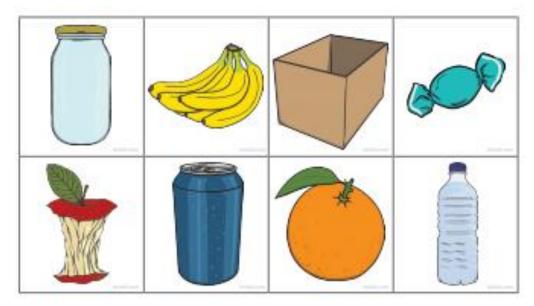
The substances required by plants and other living things to function, e.g. survive and grow.



Recycling Sort

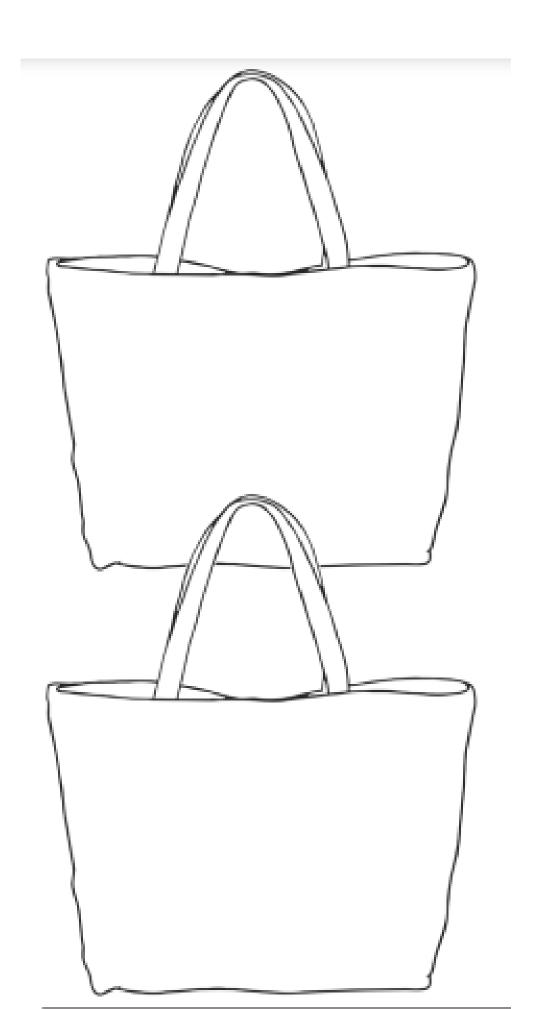
Directions: Cut and paste the pictures into the correct category.





Challenge: can you add items to each of these columns from your home?

Session 4 – What can we re-use? (part 1)



Session 5 – What can we re-use? (part 2)



- 1. Pull out a plastic bottle from the recycling bin.
- 2. Wash it and let it air dry.
- 3. Glue 4 bottle caps to the side of the bottle these will be the legs!
- 4. Draw 2 small circles on the top to act as the snout.
- 5. Cut out and glue paper ears onto the top of the bottle.
- 6. Draw 2 eyes on your pig.
- 7. Don't forget to cut a slot in the top for the money!
- 8. Use your recycled piggy bank to help the environment!