

Classifying plastics is an important part of this job

Watch the video on our topic page.









#### Innovating for the future

### Which plastic?





#### About this activity

Different types of plastic are used to make many everyday objects but do you know which plastic is which? Learn how to help the environment as you carry out simple tests and use a chart to identify different plastics for recycling. You will also find out how one company supports a recycling scheme to reduce the amount of single-use plastic sent to landfill sites.







# Innovating for the future Which plastic?

1 Think about the objects you use every day that are made from plastic. Did you know that there are many different types of plastic, each one useful for different things?







#### Innovating for the future

### Which plastic?

Why is this a negative effect?

**Plastic** 

is often thrown away after one use and this can have a negative effect on our environment by ending up in landfill sites or as litter pollution.





### Which plastic?

Innovating for the future

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Consider the 'sustainability' of plastics; in other words, how often they can be reused and recycled so that we can keep using them for longer.





# Innovating for the future Which plastic?



Print or open up the Science Experiment file on our topic page

4 Gather your numbered plastic samples.





# Innovating for the future Which plastic?



5 Half fill your container with water and place sample 1 under the water before letting it go. Do the same for the rest of the samples. Observe and record which plastics float and which sink.



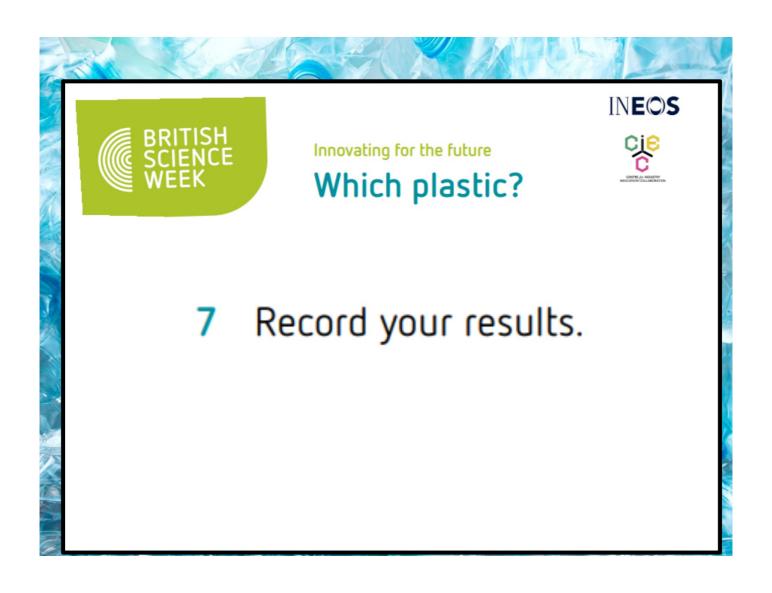


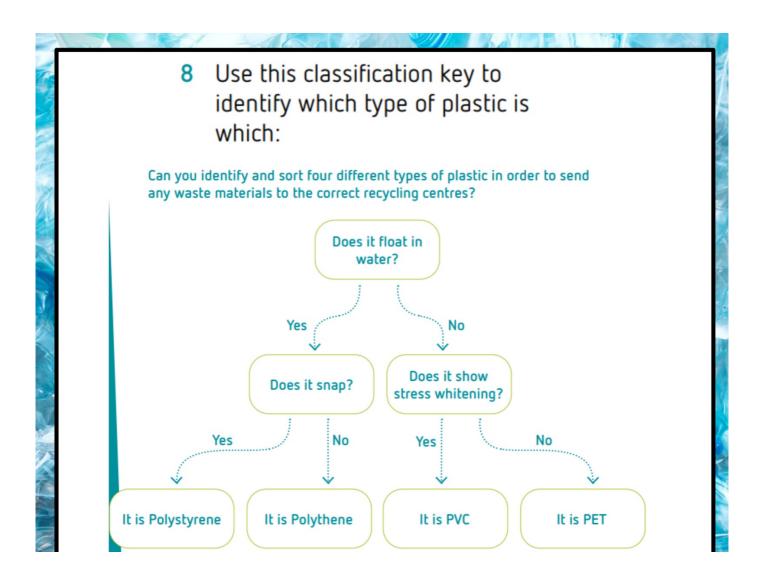
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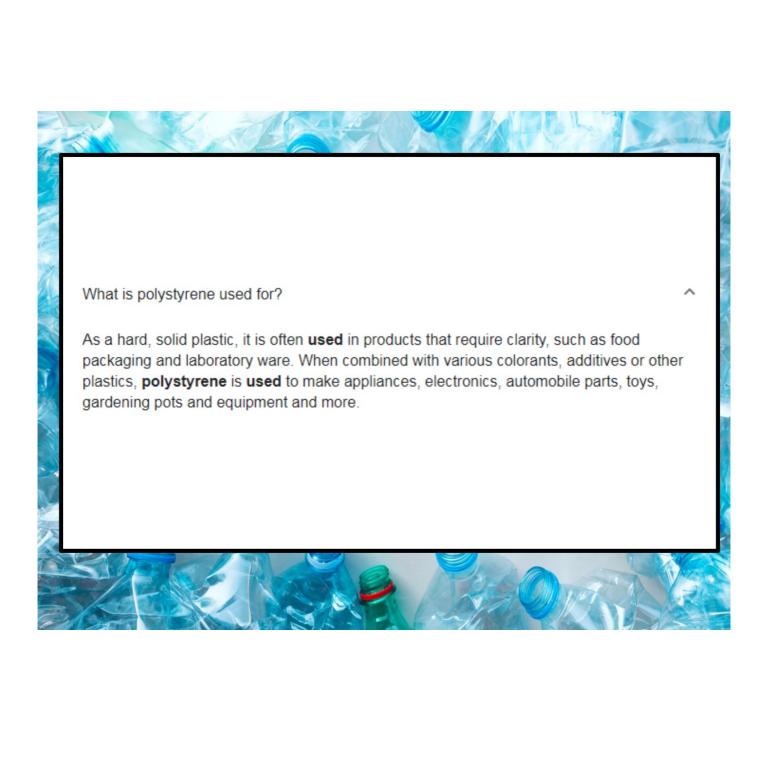


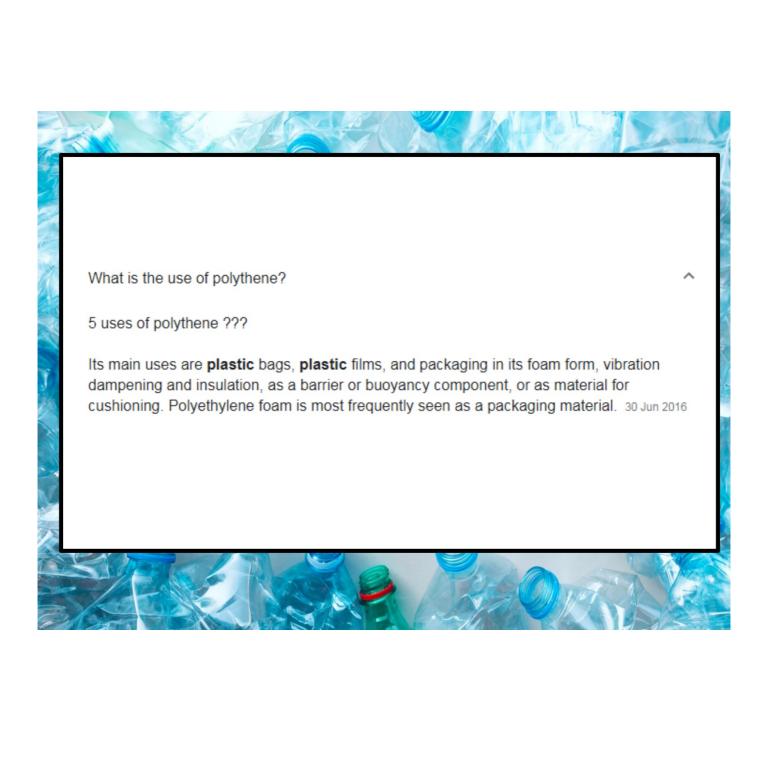
#### Which plastic?

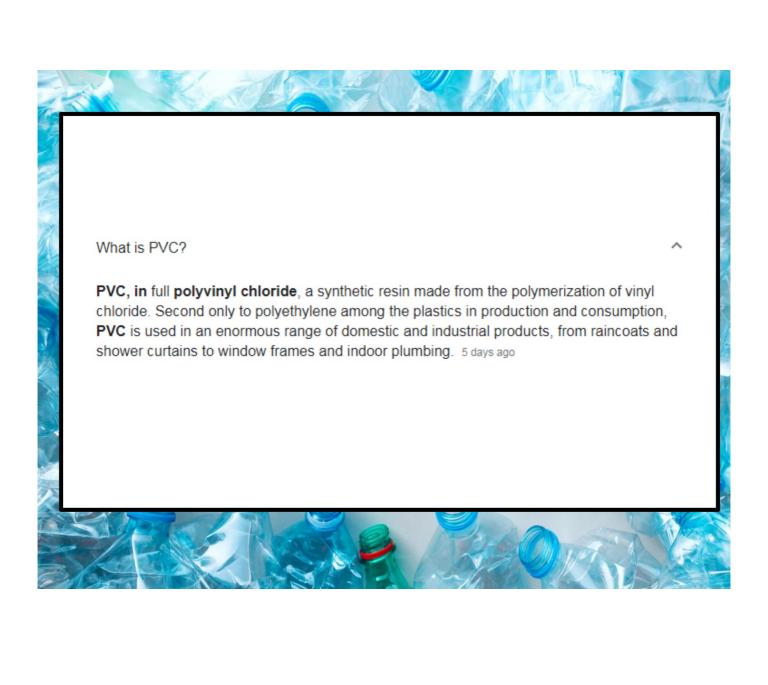
6 Using the same samples (removed from the water) fold each piece of plastic backwards and forwards to see what happens - some plastics snap under pressure; others simply fold into a crease whilst some plastics show a white line called stress whitening.

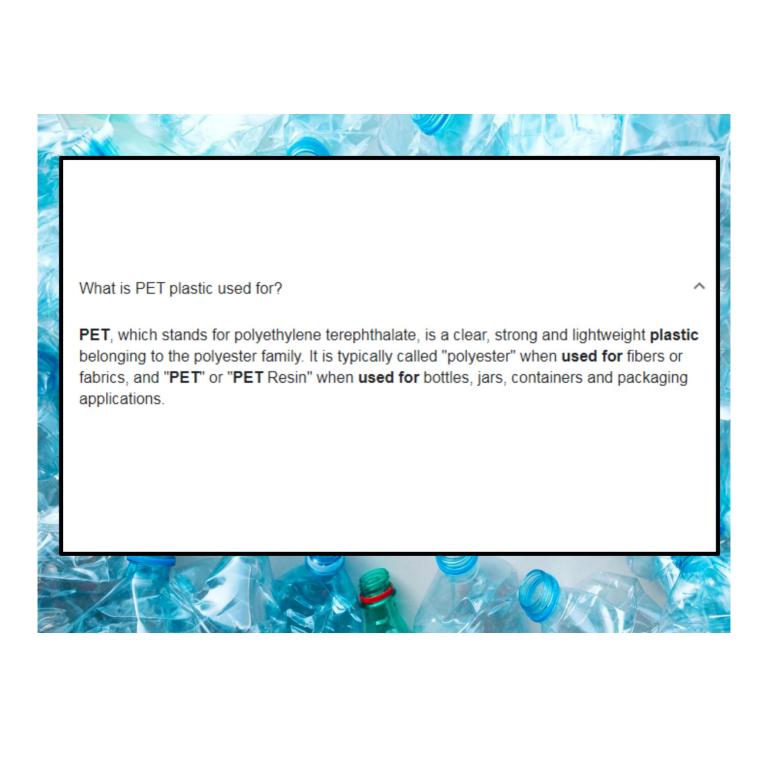












1	Plastic A	Plastic B	Plastic C	Plastic D
Does it float?				
Does it snap?				
Does it show stress whitening?				
What plastic do you think it is?				
			<u> </u>	
polystyrene	polythene	Polyvin	yl chloride	polyester