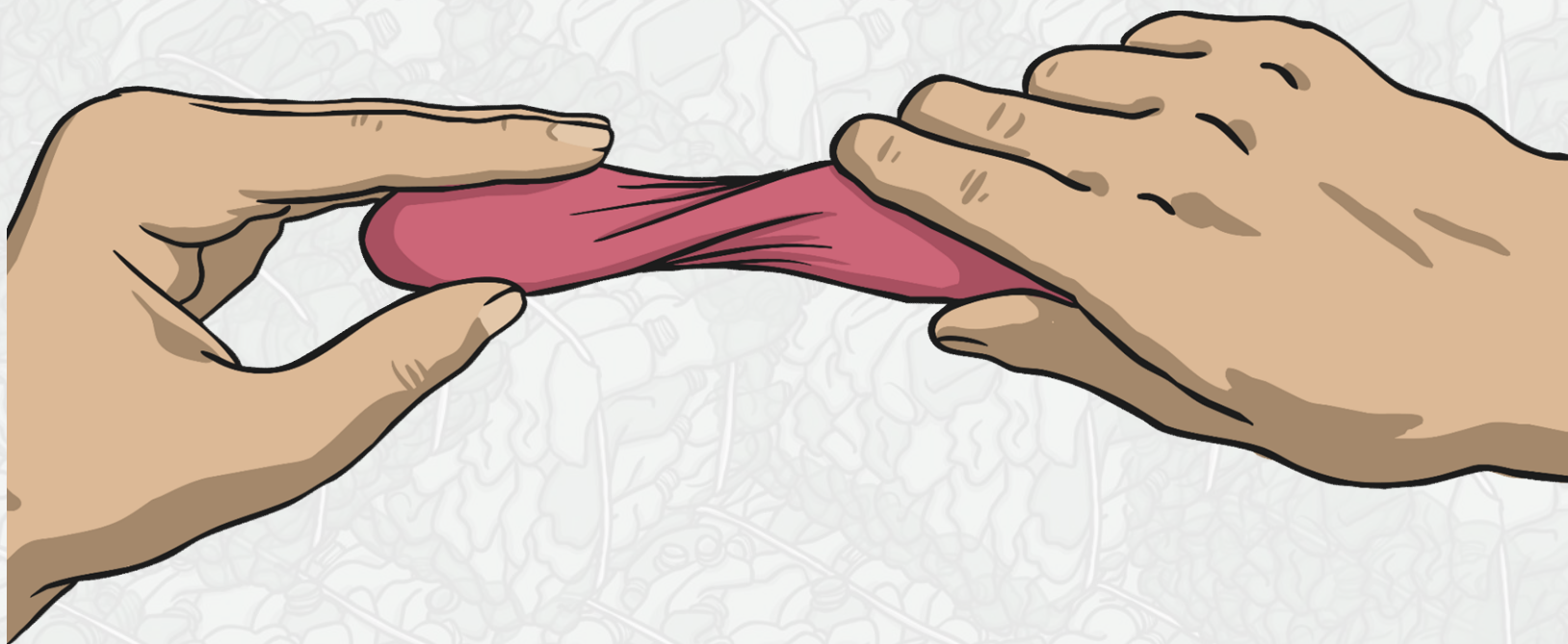




Science

Uses of Everyday Materials

Changing Shape



Aim

- I can explain how the shapes of objects made from some materials can be changed.

Success Criteria

- I can tell you four ways the shapes of some objects can be changed.
- I can demonstrate four ways to change the shape of some objects.

Changing the Shape of Materials

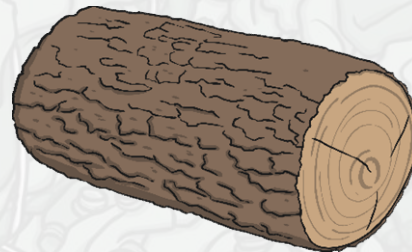


How can we change the shape of objects made from some materials?

Can you think of an example of when you have changed the shape of something? What was it and how did you change it?

Which materials do you think would be easy to change the shape of? Why?

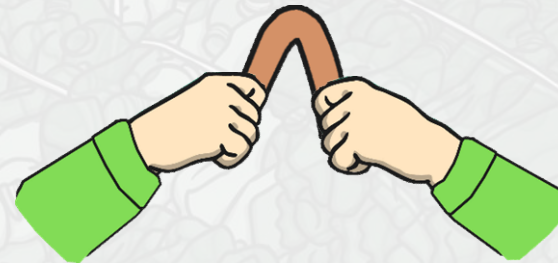
Which materials do you think would be more difficult to change the shape of and why?



Squashing, Bending, Twisting and Stretching



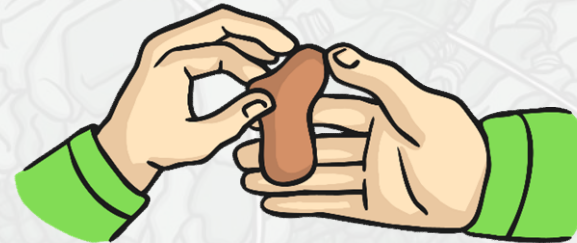
Squash an object by pushing both hands together.



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



Twist an object by turning your hands in opposite directions.



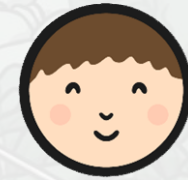
Stretch an object by pulling your hands slowly and gently apart.

Instructions

1. Look carefully at the objects on your table. **Before** you touch any of them, think about how you could change the shape of them. Tell someone on your table your idea.
2. Explore changing the shape of the objects on your table by gently squashing, bending, twisting or stretching them.
3. What happens to these objects after you have manipulated them? Tell someone on your table.
4. Record what you find out on your Changing Shape Activity Sheet.















Changing Shape











Changing Shape

Explore the objects on your table and record your answers by putting a tick or a cross in each column.

Object	Can You Squash It? 	Can You Bend It? 	Can you Twist It? 	Can You Stretch It? 
drinks can 				
pipe cleaner 				
sock 				
drinking straw 				
playdough 				
bath towel 				
sponge 				
elastic band 				



Explore the objects on your table and record your answers by putting a tick or a cross in each column.

Object	Can You Squash It?
drinks can 	
pipe cleaner 	
sock 	
drinking straw 	
playdough 	
bath towel 	
sponge 	
elastic band 	

Can You Stretch It?



The shape of all these objects could be changed in some way. See if you can find 3 objects which can't be squashed, bent, twisted or stretched. Write them down here:

Can You?



Have a think about these questions:



Can you twist a ruler?



Can you squash a ruler?



Can you stretch a pencil?



Can you bend a pencil?

Aim



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Success Criteria

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- I can demonstrate four ways to change the shape of some objects.