

IT'S A STRETCH

CHEMICAL SCIENCES

J5 & J6



22.7.2021

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What are materials and how do they change?

Space hopper video https://www.youtube.com/watch?v=giCTQ11kg_s

Tying a ponytail with hair tie video <https://www.youtube.com/watch?v=fJJUhx-cV5I>

This lesson is to establish the student's prior knowledge, so it is important to not correct them at this stage.

Show students the space hopper toy and hair tie video's, which demonstrate how each object is used.

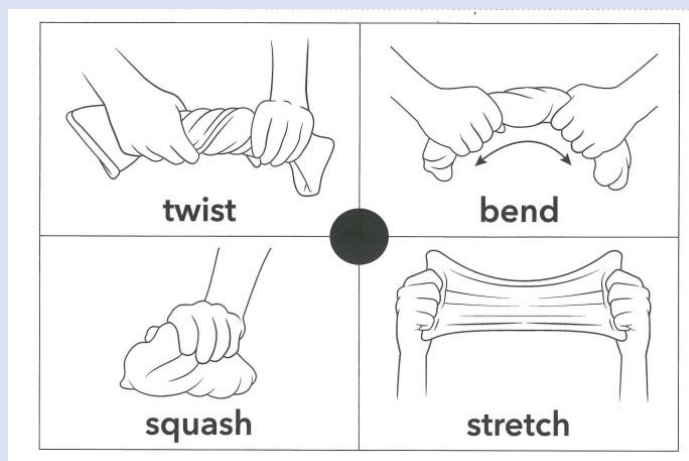
1. Discuss how each object returns to its original shape.
2. Do all objects return to their original shape after they have been changed?
3. Can all objects have their shape changed?

How can the shape of an object be changed?

This activity will require a rubber band and playdough. If you don't have any playdough or something similar you can make a dough with flour and water.

Using playdough, students familiarise themselves by playing with it and making a shape. What action did they use to make the shape?

Discuss the words twist, bend, stretch and squash.



Results table

Some materials can be changed by actions like twisting, bending, squashing and stretching, and some can't be changed. Record your results in the table by placing a ✓ or ✗ in each column.

Playdough	✓	✗	Rubber band	✓	✗
Does it bend?			Does it bend?		
Does it stay bent?			Does it stay bent?		
Does it stretch?			Does it stretch?		
Does it stay stretched?			Does it stay stretched?		
Does it twist?			Does it twist?		
Does it stay twisted?			Does it stay twisted?		
Does it squash?			Does it squash?		
Does it stay squashed?			Does it stay squashed?		
How else can you change its shape? Write two more ways.			How else can you change its shape? Write two more ways.		

Conclusion

The difference between what happens when playdough changes shape and what happens when a rubber band changes shape is ...
