

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Can you match these products to the reason they were invented?



Empty dashed box for matching.



Empty dashed box for matching.



Empty dashed box for matching.



Empty dashed box for matching.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Can you decide why these products were invented, which materials were used and why?



Hair clips

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Wellington boots

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Elastic bands

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Scissors

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Name: \_\_\_\_\_ Date: \_\_\_\_\_



Can you decide why these products were invented, which materials were used and why?



Denim jeans

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Plastic and foam helmet

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Glasses with plastic frames

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Waterproof watch

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Name: \_\_\_\_\_ Date: \_\_\_\_\_



Think like a scientist when you answer these questions



Which materials is this phone made from?

What is the main function of a phone?

Which features work well?

Which features could be improved?



Which materials is this watch made from?

What is the main function of a watch?

Which features work well?

Which features could be improved?



Which materials is this stapler made from?

What is the main function of a stapler?

Which features work well?

Which features could be improved?

This product is mainly made from plastic so it is light and flexible. It has been sealed to make it watertight. This means that someone could wear it while swimming and the water would not stop it from working.

This material was first used because it is strong and hard wearing. Originally it was used to protect sailors' goods from the weather. It is often used as clothing and worn by lots of people mainly as trousers or jackets.

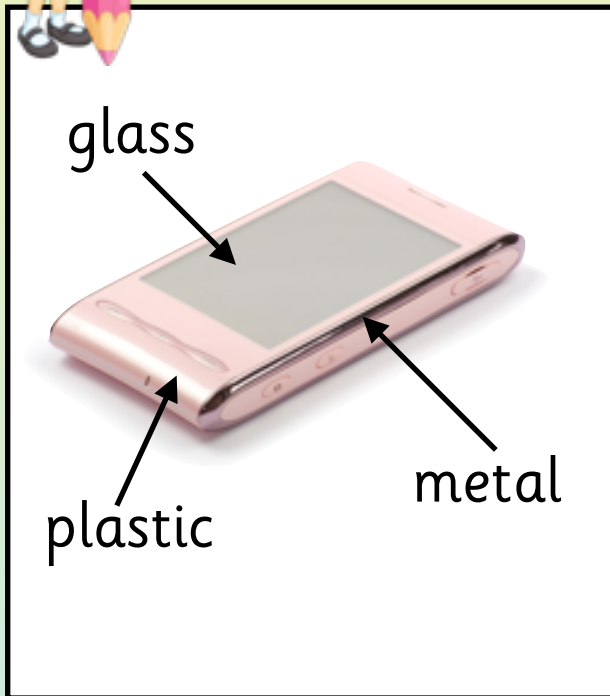
Originally these products were made from leather but now they are made from rubber. Changing the material made these boots more waterproof. Someone wearing these boots can walk through puddles or mud and keep their feet dry.

This product is made from elastic. It needs to be stretchy so it can be looped around hair and hold it tightly in place. They come in lots of different colours and are sometimes covered in a material like cotton to make them more interesting.

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How can this phone be improved further?  
What features would you like to add to it and why?  
Draw your new phone design in the box and label the materials you have used.



Blank space for drawing a new phone design.

Why have you used those materials?

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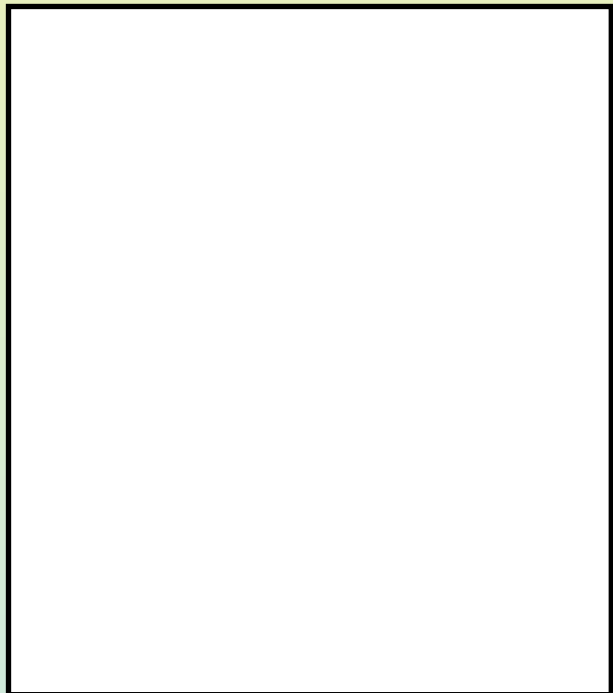
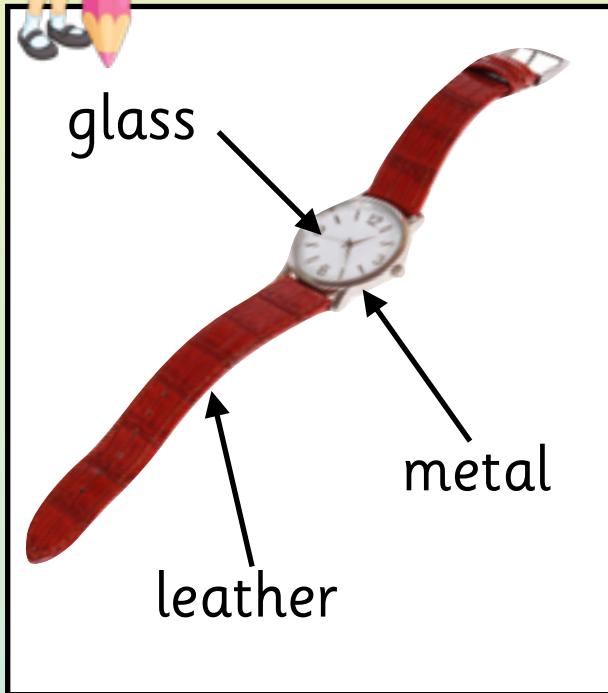
Have you used any different materials to the original design?

How does your choice of materials improve the design?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



How can this watch be improved further?  
What features would you like to add to it and why?  
Draw your new watch design in the box and label the materials you have used.



Why have you used those materials?

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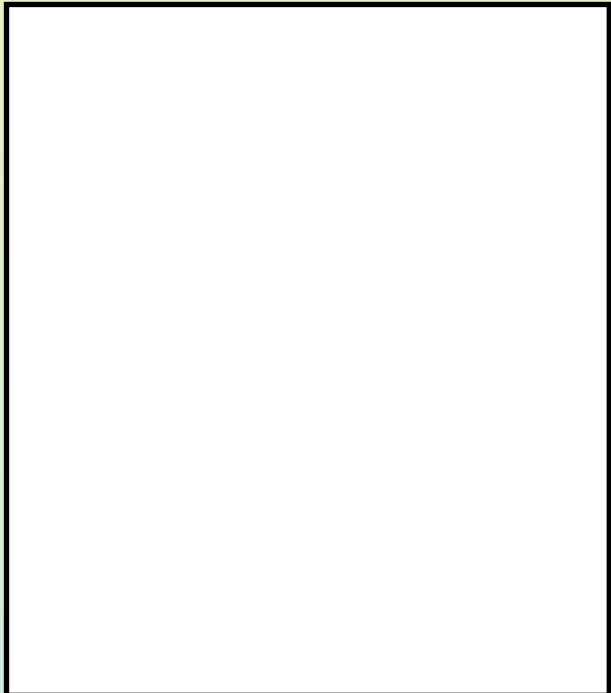
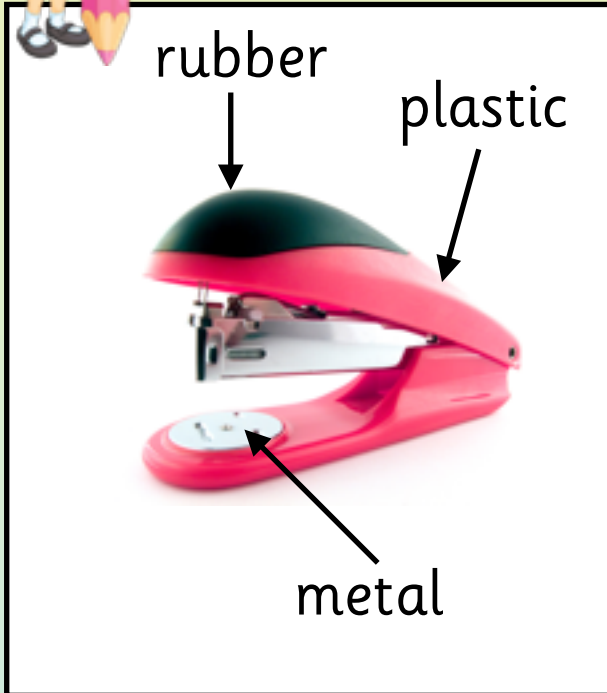
Have you used any different materials to the original design?

How does your choice of materials improve the design?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



How can this stapler be improved further?  
What features would you like to add to it and why?  
Draw your new stapler design in the box and label the materials  
you have used.



Why have you used those materials?

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Have you used any different materials to the original design?

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How does your choice of materials improve the design?

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