

Name: _____ Date: _____



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



Denim jeans



Wellington boots



Hair tie



Waterproof watch

Name: _____ Date: _____



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



Hair clips



Wellington boots



Elastic bands



Scissors

Name: _____ Date: _____



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



Denim jeans



Plastic and foam helmet



Glasses with plastic frames



Waterproof watch

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.

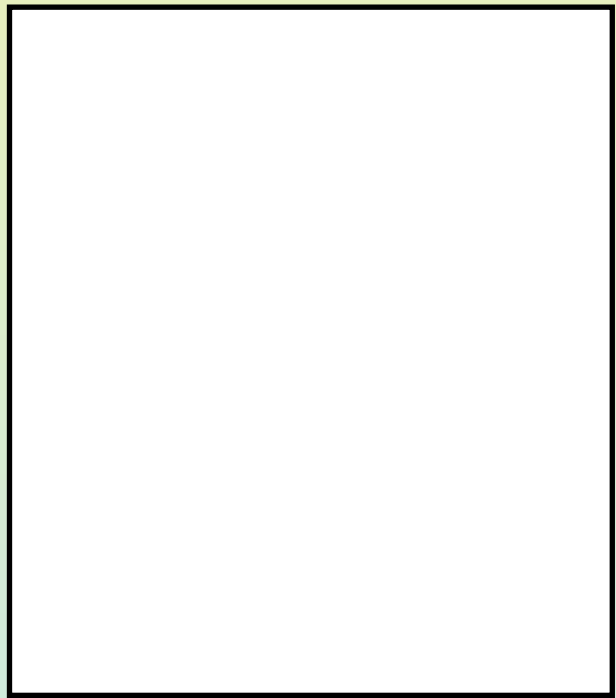
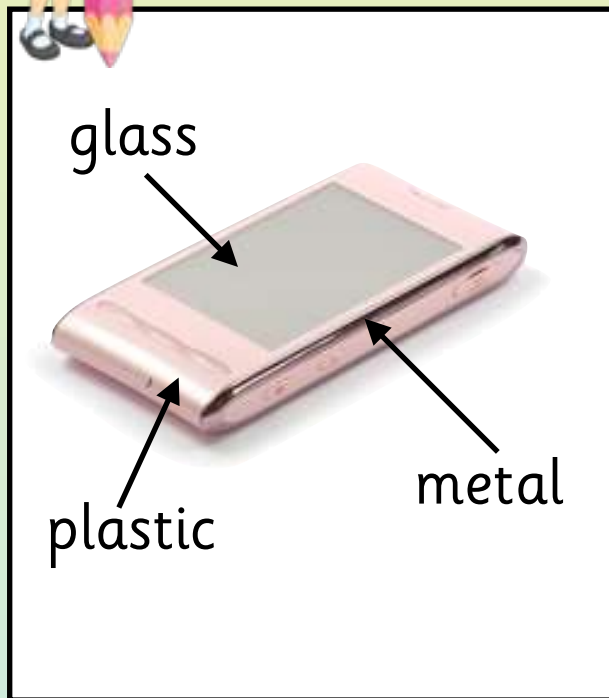
This material was first used because it is strong and hard wearing. Originally it was used to protect sailors' goods from the weather. It is often used as clothing and worn by lots of people mainly as trousers or jackets.

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.

Name: _____ **Date:** _____

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.



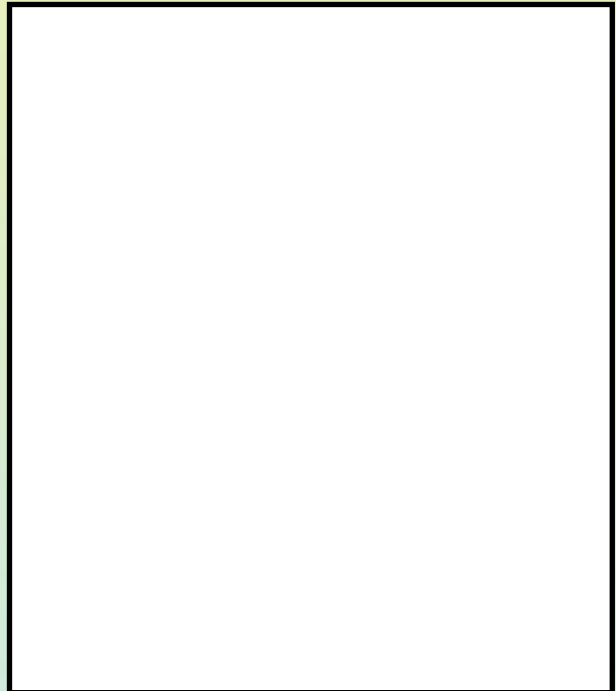
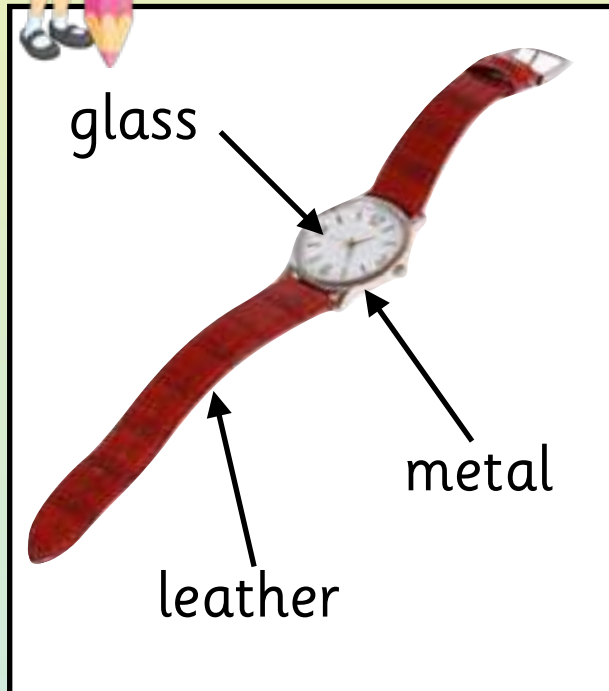
Why have you used those materials?

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.



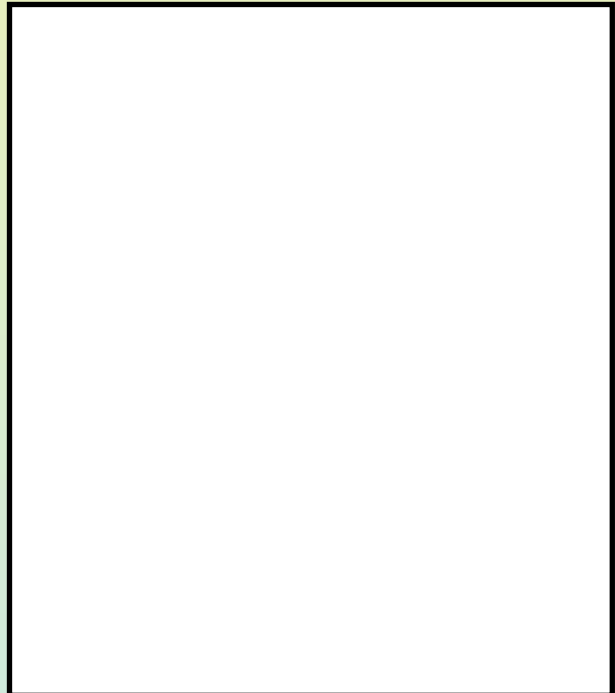
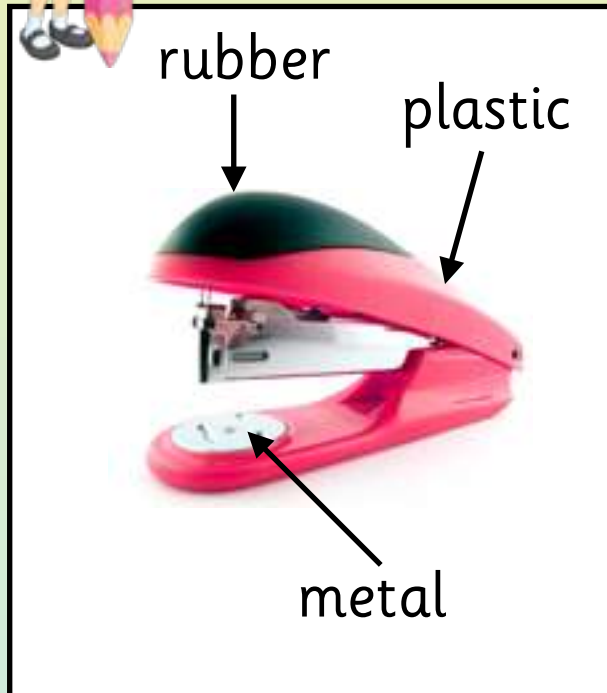
Why have you used those materials?

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?

Have you used any different materials to the original design?

How does your choice of materials improve the design?
