

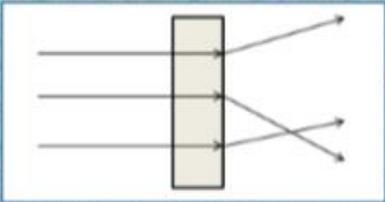
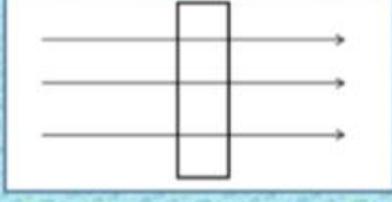
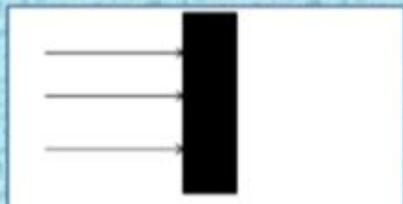
WALT: identify the suitability of different materials.

Week 5 - Monday 8th February 2021

You have been finding out lots of information about castles over the last few weeks. When castles were first built they would not have had blinds and curtains at the windows like you have now in your own homes.



This week in Science you are going to test the suitability of materials that could be used for castle windows. These words will help you to describe the materials.

Translucent – these materials let light through but it is randomly scattered.		Transparent – these are materials which let all of the light straight through.
		
		Opaque – these materials let no light through.

There are different parts to an experiment.

EQUIPMENT - METHOD - PREDICT - TEST - RESULT - CONCLUSION

You are going to experiment with the materials to see if they let the light through. **You need to find the best material to make the castle dark at night.** First you need to choose your materials to test. Remember it has to be a **FAIR TEST** which means for this experiment you need to use the same window to test the materials.

Task 1: EQUIPMENT: Find 4 different types of materials in your house. You could use: tin foil, cling film, cardboard or paper OR something different that you have. You can find more if you want to challenge yourself.

Task 2: PREDICTION: Make a small table to show the materials you have chosen and make a prediction about whether light will be let through.

Material	Prediction	Did it let light through?
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Task 3: METHOD, TEST, RESULTS: Hold each piece of material up against the window and see if there is any light shining through. Is it a lot? Is it a small amount? Is there any light shining through?



Record in the table what happened with the material against the window.

An example is shown below.

Material	Prediction	Did it let light through?
Metal	Will let light through	No light

TASK 4: CONCLUSION: Look back at your results and think about what you have found out about the way light shines through different materials.

Does the material need to be thick? Does it need to be soft? Does it need to be clear?

Write what you have found out. Use this sentence starter to help. You can talk to an adult about what you have found and maybe think why your blinds and curtains are made from different material for different places in your house.

In conclusion I have found out that _____ is the best material for a castle window because _____.

