

Which materials conduct heat best? Which materials insulate best?

On a Science sheet of paper (a sheet of paper with Science as a title ☺) Write a prediction before you watch this video:

<https://www.youtube.com/watch?v=Ry8yXhCxclA>

Which spoon do you think will be the best conductor of heat - and why?

After watching the short video and if you can find any materials to test, you could try this experiment yourself, with different objects – try to make them approximately the same size.

*Ask first if you can use a small amount of butter/margarine, and **ask for help with pouring hot water!**

Make a chart/table to show which materials were the best CONDUCTORS of heat (warmed up) and which were best INSULATORS of heat (remained cold).

Draw and label some objects which you predict will be good CONDUCTORS of heat and some objects which you predict will be good INSULATORS – and explain your thinking...the more scientific detail the better – challenge yourself to be the best you can be!

If you can, save a photo of your science work in your ' My Work' Purple Mash folder.

Extra videos – sit back and enjoy – but learn something too!

Great visual ideas:

<https://www.youtube.com/watch?v=a6ugPfc70Q>

Very funny to watch! You don't need to try this at home...☺

https://www.youtube.com/watch?v=FCkaafJG_U0

For serious scientists! This is good for explaining; uses a good range of specific scientific words!

<https://www.youtube.com/watch?v=4aC2InQel3o>

Optional Challenge:

Design a lunch bag/lunch box – what material would you use? Would it be best to keep your food cold or hot? What size would it be? What shape would it be? What would the outside design look like?