

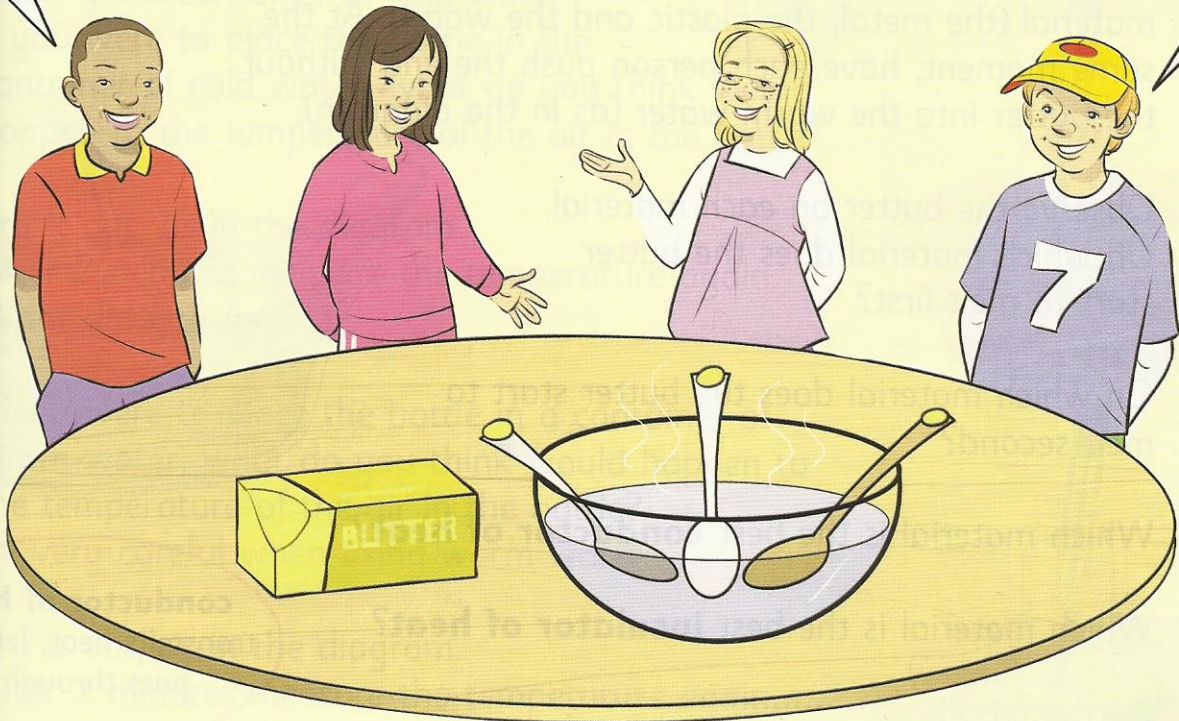
Will the butter melt?

I think that the plastic spoon itself will melt.

The butter will melt at the same time on all three spoons.

The butter will never melt on the top of those spoons.

The water would need to be boiling before the butter would melt.



The **BIG** Question

Identify the main question you need to answer.
Record it now on your Investigation Record Sheet.

My Prediction

Complete this sentence on your Investigation Record Sheet:

I think that the best conductor of heat will be _____

Use your Record Sheet to investigate!

My Question
My Prediction
Let's Investigate!
My Record
My Results
My Conclusion



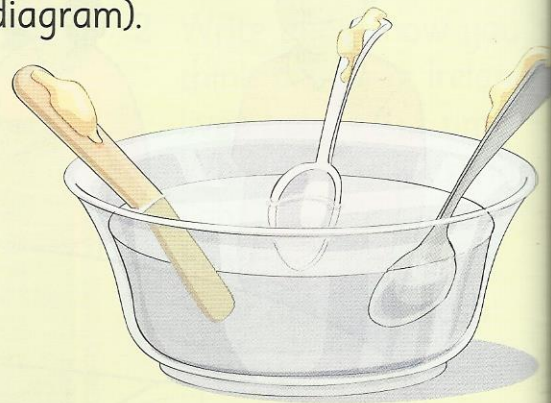


Let's Investigate!

- 1 Put some warm water into a container. **Be very careful when using warm water.** Get a metal spoon, a plastic spoon and a lollipop stick.
- 2 Place a blob of butter on the handle of each spoon and at one end of the lollipop stick.
- 3 Have one person in your group take charge of each material (the metal, the plastic and the wood). At the same moment, have each person push the end without the butter into the warm water (as in the diagram).
- 4 Observe the butter on each material. On which material does the butter start to melt first?
- 5 On which material does the butter start to melt second?
- 6 Which material is the best **conductor of heat**?
- 7 Which material is the best **insulator of heat**?

You will need:

- A large bowl
- Metal and plastic spoons of about the same size
- Butter
- Lollipop sticks
- Warm water



conductor of heat:
transmits heat; lets heat pass through it

insulator of heat:
does not transmit heat; does not let heat pass through it



My Record

On your Investigation Record Sheet, draw diagrams of the experiments that you did.



My Results

It is now time to record your results.



My Conclusion

Now that your class has discussed the investigations, you can record the conclusion on your Investigation Record Sheet.

Remember!

- Clear diagrams
- Labels
- Colour

Investigation Record Sheet: Let's investigate!

Title: _____

My Question / What do we want to know?

My Prediction / What do you think will happen?

I think that _____

Let's Investigate!

My Record (labelled ^{picture} diagram) What we used + how it was set up?

My Results - What happened?

My Conclusion - Answer to our question + what we found out
