

Middle School Science

Name:

Date:

Conduction and Convection Worksheet

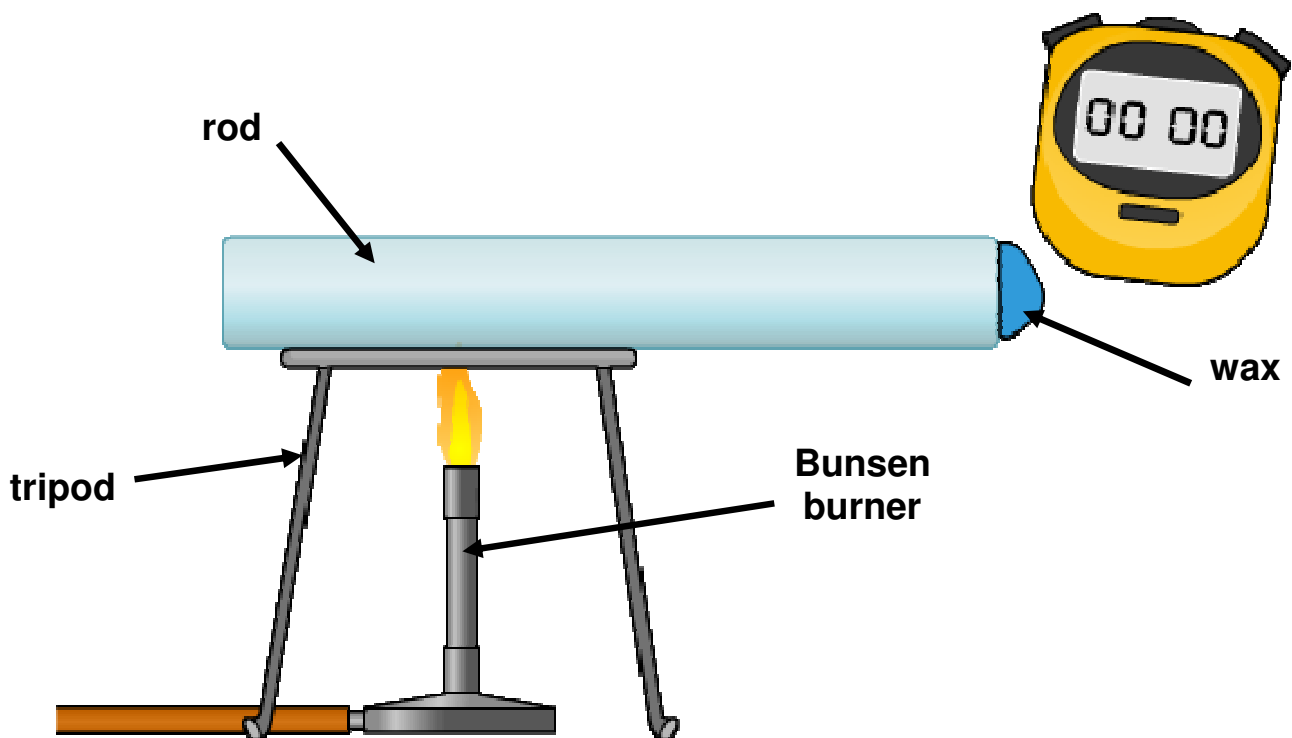
This worksheet accompanies slide 2 of *Conduction and Convection.ppt*

Investigating conduction

This experiment is designed to test the speed with which different materials conduct heat.

Set up a Bunsen burner and tripod as shown below. Attach a blob of wax to the end of a uniform rod made from the material you want to test and securely place it on the tripod so that it will not tip. Gently heat the end of the rod furthest from the wax with the Bunsen.

Use a stopwatch to time how long it takes for the wax to melt and fall from the rod.



Test at least four different substances. Make sure that you choose a good range. Here is a suggested list:

- Copper
- Iron
- Steel
- Glass
- Ceramic

Middle School Science

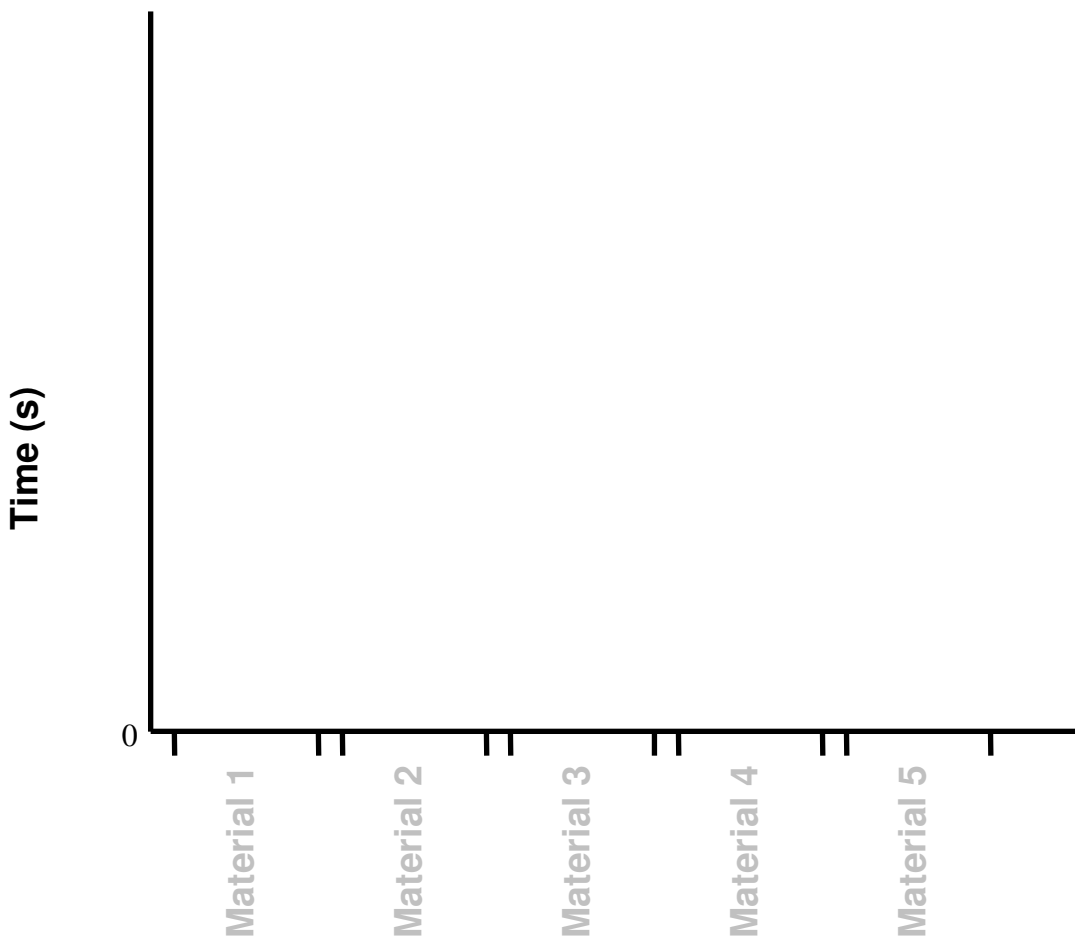
Name:

Date:

Record your results in the table below:

Material	Time taken (s)

1. Plot a bar chart of your results below.



Middle School Science

Name:

Date:

2. How did you make your experiment a fair test?

.....

.....

.....

3. How did you ensure the experiment was safe?

.....

.....

.....

4. Which material was the best conductor of heat?

.....

5. Which material was the worst conductor?

.....

6. Did you notice any patterns in your results? Can you say what types of material tend to conduct heat the fastest?

.....

.....

.....

.....