

## B3: HEAT TRANSFER BY CONDUCTION

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### Overview

This section is designed to introduce students to the concept of **heat transfer by conduction**. Students are presented with a selection of materials; two metals and two liquids. They are asked to predict whether the substances will **conduct heat** or not before testing them out. To motivate and engage students, the teacher challenges them to use their knowledge of **energy transfer** to **predict, observe** and **explain** what happens as they carry out the activities. They are then asked to **compare** their **predictions** with their **observations**. In this way, students are expected to develop an understanding of **heat energy by conduction**.

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### Suggested approaches:

- These activities can be used either as an **introduction** to **conduction of heat energy** or as a means of revision of material which may have already been covered.
- Encourage students to check out the equipment while you explain briefly what you are going to do.
- Before carrying out the demonstrations, ask students to predict what they think will happen.