Mock Exam: MYP Science Practice

45 minutes · Energy transfer and experimental design

Practice paper

Generated from the student workspace topics and upcoming assessment focus. Use this as timed practice, not as an official school exam.

Section A — Knowledge and understanding

1. Define conduction, convection and radiation. Give one example of each.
2. Explain why metal feels colder than wood at the same room temperature.
3. Describe one way insulation reduces energy transfer.

Section B — Applying skills

4. A student heats water in two cups, one wrapped in fabric and one unwrapped. Write a hypothesis for this experiment.
5. Identify the independent, dependent and controlled variables.
6. Sketch the type of graph that would best show temperature change over time.

Section C — Extended response

Evaluate whether the experiment is fair and suggest two improvements. Use scientific vocabulary and refer to evidence you would collect.

Sample only. This is a fictional example of the type of document my24-7tutor can generate from parent-authorised school material. It is not official school material.