

# Marking Guide: MYP Science Practice

Parent guide · Energy transfer and experimental design

How to use this guide

Look for evidence of understanding, not perfect wording. Award partial credit where the student explains the idea clearly.

| Question | What a strong answer includes                                                                                                         | Marks |
|----------|---------------------------------------------------------------------------------------------------------------------------------------|-------|
| 1        | Accurate definitions plus relevant examples: conduction through solids, convection in fluids, radiation via waves.                    | 6     |
| 4        | A testable prediction linking insulation to slower temperature decrease.                                                              | 3     |
| 5        | Independent variable: cup wrapping. Dependent variable: temperature/time. Controls: water volume, start temperature, room conditions. | 6     |
| Extended | Fair-test reasoning, evidence reference, and two practical improvements such as repeats or better temperature logging.                | 8     |

## Feedback prompts

- Can your child explain why, not just what?
- Did they use evidence from the experiment?
- Can they identify variables without guessing?