**8P1 Heating and Cooling**

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| Year 8: Physics - Heating and cooling | temperature | I can measure temperature accurately |  |
| I can identify boiling point from data |  |
| I can record temperature changes over time |  |
| I can interpret graphs of temperature change (eg cooling to room temperature) |  |
| Conduction | I can describe conduction through solids in terms of vibrations |  |
| I can carry out an investigation into conduction in different materials |  |
| I can use an understanding of conduction when making decisions on material choices |  |
| Convection | I can describe convection as the movement of particles |  |
| I can give examples of convection in everyday life. |  |
| I can discuss convection as a method of energy transfer in fluids |  |
| Radiation and heat transfer | I can describe situations where heat sources are felt from radiation |  |
| I can describe radiation as a method of heat transfer |  |
| I can describe the effect of a dark/reflective surface on energy absorption from radiation |  |
| Evaporation | I can describe situations where evaporation occurs |  |
| I can plan an investigation to investigate the effect of evaporation on temperature |  |
| I can use an understanding of heat transfer to describe evaporation |  |
| Insulation | I can explain how insulating materials restrict the flow of heat |  |
| I can plan an investigation to measure the effect of insulation materials |  |
| I can use an understanding of heat transfer to predict and explain experimental results |  |