**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 |   |