CiE iGCSE Physics Checklist

Section 15: Thermal properties and temperature

(Part 2)

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| ***I can*** | ☺ | 😐 | ☹ |
| **CORE** |  |  |  |
| Relate a rise in the temperature of a body to an increase in its internal energy |  |  |  |
| Show an understanding of what is meant by the thermal capacity of a body |  |  |  |
| Describe melting and boiling in terms of energy input without a change in temperature |  |  |  |
| State the meaning of melting point and boiling point |  |  |  |
| Describe condensation and solidification in terms of molecules |  |  |  |
| **SUPPLEMENT** |  |  |  |
| Give a simple molecular account of an increase in internal energy |  |  |  |
| Recall and use the equation thermal capacity = mc |  |  |  |
| Define specific heat capacity |  |  |  |
| Describe an experiment to measure the specific heat capacity of a substance |  |  |  |
| Recall and use the equation change in energy = mc∆T |  |  |  |
| Distinguish between boiling and evaporation |  |  |  |
| Use the terms latent heat of vaporisation and latent heat of fusion and give a molecular interpretation of latent heat |  |  |  |
| Define specific latent heat |  |  |  |
| Describe an experiment to measure specific latent heats for steam and for ice |  |  |  |
| Recall and use the equation energy = ml |  |  |  |