CiE iGCSE Physics Checklist

Section 14: Thermal properties and temperature

(Part 1)

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| **CORE** |  |  |  |
| Describe qualitatively the thermal expansion of solids, liquids, and gases at constant pressure |  |  |  |
| Identify and explain some of the everyday applications and consequences of thermal expansion |  |  |  |
| Appreciate how a physical property that varies with temperature may be used for the measurement of temperature, and state examples of such properties |  |  |  |
| Recognise the need for and identify fixed points |  |  |  |
| Describe and explain the structure and action of liquid-in-glass thermometers |  |  |  |
| **SUPPLEMENT** |  |  |  |
| Explain, in terms of the motion and arrangement of molecules, the relative order of the magnitude of the expansion of solids, liquids and gases |  |  |  |
| Demonstrate understanding of sensitivity, range and linearity |  |  |  |
| Describe the structure of a thermocouple and show understanding of its use as a thermometer for measuring high temperatures and those that vary rapidly |  |  |  |
| Describe and explain how the structure of a liquid-in-glass thermometer relates to its sensitivity, range and linearity |  |  |  |
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