CiE iGCSE Physics 0625 Learning Plan

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| **Section 14: Thermal properties and temperature 1** |
| Specification | Resources | Assessment |
| **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 | Video: Physics Section 2 – Lesson 3 – Thermal properties and temperature (Part 1)Powerpoint: Thermal properties and temperature - 1Textbook Page 100 to 101 – Temperature (1)Page 102 to 103 – Temperature (2)Page 104 to 105 – Expanding solids and liquidsPage 106 to 107 – Heating gasesSection 14 Checklist.doc | TextbookPage 101 – Questions 1 to 3Page 103 – Questions 1 and 2Page 105 – Questions 1 and 2Page 107 – Questions 1 to 4Answers – Page 328Talking paper – CiE Physics Section 14 – Thermal properties and temperature 1Section 14 Exam Question –. (pdf)Section 14 Exam Question – Mark Scheme. (pdf) |

Videos – www.igcsesciencecourses.com

Textbook Ref: Complete Physics for Cambridge iGCSE (Stephen Pople) - OUP

DVD Assessments – see resource DVD in textbook.