CiE iGCSE Physics 0625 Learning Plan

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| **Section 15: Thermal properties and temperature 2** | | |
| Specification | Resources | Assessment |
| **Core**  2.2.3 Thermal capacity (heat capacity)  • 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  2.2.4 Melting and boiling  • 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**  2.2.3 • 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  2.2.4 • 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 | Video: Physics – Section 2 – Thermal Physics – Lesson 4 – Thermal properties and temperature (Part 2)  Powerpoint: Physics 15 – Thermal properties and temperature - 2  Textbook  Page 114 – 5.09 – Liquids and vapours  Page 116 – 5.10 – Specific heat capacity  Page 118 – 5.11 – Latent heat  Section 15 Checklist.doc | Textbook  Page 115 – Questions 1 to 6  Page 117 – Questions 1 to 3  Page 119 – Questions 1 to 4  Answers – Page 328  Page 120 – 121. End of Section 5 Questions.  Page 328 – Answers  Talking paper – CiE Physics Section 15 – Thermal properties and temperature 2  Section 15 Exam Question –. (pdf)  Section 15 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.