CiE iGCSE Physics 0625 Learning Plan

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| **Section 12: Simple Kinetic Molecular Model of Matter – 1** | | |
| Specification | Resources | Assessment |
| **Core**  State the distinguishing properties of solids, liquids and gases.  Describe qualitatively the molecular structure of solids, liquids and gases in terms of the arrangement, separation and motion of the molecules.  Interpret the temperature of a gas in terms of the motion of its molecules.  Describe qualitatively the pressure of a gas in terms of the motion of its molecules.  Show an understanding of the random motion of particles in a suspension as evidence for the kinetic molecular model of matter.  Describe this motion (sometimes known as Brownian motion) in terms of random molecular bombardment  **Supplement**  Relate the properties of solids, liquids and gases to the forces and distances between molecules and to the motion of the molecules.  Explain pressure in terms of the change of momentum of the particles striking the walls creating a force.  Explain pressure in terms of the change of momentum of the particles striking the walls creating a force. | Video: Physics – Section 2 – Lesson 1 – Simple kinetic molecular model of matter (Part 1).  Powerpoint: Physics 12 – Simple Kinetic Molecular Model of Matter – 1.  Textbook  Pages 98 – 99. Section 5.01 Moving particles.  Page 98 – Solids, liquids and gases.  Page 99 – Brownian motion: evidence for moving particles.  Page 99 – Energy of particles. | Textbook  Page 99 – Q1 to Q4  Page 120 – Q2  Answers – Page 328  Talking Paper – Section 12 –Simple Kinetic Molecular Model of Matter - 1  Exam Q12 Kinetic Model – pdf  Exam Q12 Mark Scheme - pdf |

Videos – www.igcsesciencecourses.com

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

DVD Assessments – see resource DVD in textbook.