| **TOPIC and TIMING (Weeks)** | **QCAA OBJECTIVES and ASSESSMENT** | **LEARNING GOALS and SUCCESS CRITERIA**  **NOTE – SC and LG are based on QCAA Subject matter objectives. An \* indicates wording or structure has been changed slightly to make student interpretation easier.** | **Page reference** |
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| **Gases**  **Weeks 6 and 7 (4 lessons**) | **Unit 2 Topic 1**  **Objectives1, 2, 3, 4, 5, 6, 7** | **SC1**\***:** I can convert between unit of pressure, volume and temperature, including Pa, kPa, mmHg, Atmospheres, 0C, K, mL, L, m3. |  |
| **SC2:** I canuse the kinetic theory of gases to describe and explain the behaviour of ideal gases, including the qualitative relationships between pressure, temperature and volume |  |
| **Mandatory practical**  **SC3:** I know the volume of an ideal gas at STP and SLC  **SC4:** I can solve problems related to the ideal gas equation |  |
| **SC5:** I can solve (and make predictions for) problems, including the mole concept, to calculate the mass of chemicals and/or volume of a gas (at standard temperature and pressure) involved in a chemical reaction |  |
| **LG1\*: Students can solve questions using the kinetic theory and ideal gas equation and apply this to balanced chemical equations** |  |