PPE3 Topic Lists for Revision

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| **Subject: Chemistry paper 2** |
| **Topic or component:** |
| * **Rates and equilibrium – rates of reaction, collision theory, effect of temperature, surface area, concentration, pressure and catalysts, reversible reactions, equilibrium** * **Crude oil and fuels – Hydrocarbons, fractional distillation, burning and cracking** * **Organic reactions (triple Science students only) – alkenes, alcohols, carboxylic acids, esters** * **Polymers (triple Science students only) – Polymerisation, natural polymers and DNA** * **Chemical analysis – Pure substances, mixtures, chromatography, gas tests, testing for positive and negative ions and instrumental analysis** * **The Earth’s atmosphere – History and evolution of the atmosphere, greenhouse gases, climate change and pollutants** * **The Earths resources – Finite and renewable, water treatment, life cycle assessments and recycling** * **Using our resources (triple Science students only) – Rusting, alloys, polymers, glass, ceramics and composites, Haber process, Making fertilisers** |

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| **Strategies and Resources for Revision:** |
| * **Revision booklets** * **Past papers**   [**https://www.aqa.org.uk/subjects/science/gcse**](https://www.aqa.org.uk/subjects/science/gcse)   * **Educake quizzes** * **GCSE bitesize**   [**https://www.bbc.co.uk/bitesize/learn**](https://www.bbc.co.uk/bitesize/learn)   * **Revision guides** |