**A-Level Chemistry AQA – Summary of Topics**

|  |
| --- |
| **Year 1 / AS Chemistry** |
| **Topic** | **Syllabus Reference** | **Textbook Reference** |
| Topic 1: Atomic Structure | 3.1.1 and 3.2.1 | 1.1-1.6 and 8.1-8.4 |
| Topic 2: Amount of Substance | 3.1.2 | 2.1-2.6 |
| Topic 3: Bonding | 3.1.3 | 3.1-3.7 |
| Topic 4: Energetics | 3.1.4 | 4.1-4.7 |
| Topic 5: How Far? How Fast? I | 3.1.5 and 3.1.6 | 5.1-5.3 and 6.1-6.6 |
| Topic 6: Redox and Group Chemistry | 3.1.7, 3.2.2 and 3.2.3 | 7.1-7.3, 9.1 and 10.1-10.4 |
| Topic 7: Intro to Organic Chemistry | 3.3.1 and 3.3.2 | 11.1-11.3 and 12.1-12.5 (part of 14.1) |
| Topic 8: Reactions of Organic Compounds | 3.3.3, 3.3.4 and 3.3.5 | 13.1-13.3, 14.1-14.3 and 15.1-5.3 |
| Topic 9: Analysis of Organic Compounds | 3.3.6 | 16.1-16.3 |
|  |  |  |
| **Year 2 A-Level Chemistry** |
| **Topic** | **Syllabus Reference** | **Textbook Reference** |
| Topic 10: Thermodynamics | 3.1.8 | 17.1 – 17.4 |
| Topic 11: How Far? How Fast? II | 3.1.9 and 3.1.10 | 18.1 – 18.4 and 19.1 |
| Topic 12: Acids, Bases and Buffers | 3.1.12 | 21.1 – 21.6 |
| Topic 13: Electrochemistry | 3.1.11 | 20.1 – 20.3 |
| Topic 14: Reactions of Period 3 elements and oxides | 3.2.4 | 22.1-22.3 |
| Topic 15: Transition metals and complex ions | 3.2.5 and 3.2.6 | 23.1-23.5 and 24.1-24.3 |
| Topic 16: Carbonyl Compounds and Optical Isomerism | 3.3.7, 3.3.8 and 3.3.9 | 25.1 – 26.5 |
| Topic 17: Amines and Polymers | 3.3.11 and 3.3.12 | 28.1 – 29.1 |
| Topic 18: Aromatic Chemistry | 3.3.10 | 27.1 – 27.3 |
| Topic 19: Amino Acids, Proteins and DNA | 3.3.13 | 30.1-30.5 |
| Topic 20: Organic Synthesis and Analysis | 3.3.14-3.3.16 | 31.1-33.1 |