Pearson Edexcel GCE Chemistry

Groby Community College Year 12

Checklist - A level Chemistry Half Term 1

This checklist can be used as a way of ensuring your folder reaches the standard required for effective learning and revision. It covers the work studied in topics 1 and 2 before half term

| Task | Comments |
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| Notes | On Atomic Structure and Isotopes (Topic 1 Sections 1- 5)  [Textbook Chapter 1] |
| Notes | On key terms related to atoms (Topic 1 Sections 6 - 7)  [Textbook Chapter 1] |
| Notes | On use of mass spectra to find abundance of isotopes and molecular masses (Topic 1 Sections 8 - 10) [Textbook Chapter 1] |
| Worked Example | Calculating the relative atomic masses of elements |
| Worked Example | Predicting the mass spectrum of a diatomic molecule e.g Cl2 |
| Notes | On Ionisation Energies, including trends down a group and across a period (Topic 1 Sections 11- 14) [Textbook Chapter 1] |
| Notes | On electronic configurations using the s, p, d orbital model (Topic 1 Sections 15 - 22)  [Textbook Chapter 1] |
| Experimental Write Up | Flame tests, including link to emission spectra and electron configuration model |
| Worked example | Explaining patterns in first ionisation energy across a period |
| Worked example | Using patterns in successive ionisation energies of an atom to determine its group |
| Research | Data on boiling temperatures, melting temperatures, atomic radii and first ionisation energy presented as graphs (Periods 2 & 3) |
| Notes | Explanation of trends in research data across periods 2 & 3, using ideas of bonding and structure  (Topic 1 Sections 23 - 26) [Textbook Chapter 1] |
| Worked Examples | Dot and cross diagrams of positive and negative ions |
| Specification Review | Print out and RAG review of Topic 1, including target setting |
| Assessment 1 | Atoms and Isotopes |
| Assessment 2 | Ionisation Energies and Periodicity |