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Year 11 Overview 2023-24 – *Chemistry*

Date	Wk	Week	Units Studied & Learning Outcomes	Key Concepts & Assessment
8 weeks (12 Lessons) (38 Days)				
Tues 5-Sep	A	1	Overview of Unit/No. lessons • Reactions of Metals (9 lessons) Lesson **Sequence** of Content: **1 & 2**. QC – Reacting masses (2 lessons) **3**. Quantitative Chemistry - Moles to balance equations & limiting reactants (1 lesson) **4**. Bond energies (1 lesson) **5**. Metals & oxygen (1 lesson) **6**. Indicators (1 lesson) **7**. Strong & weak acids (1 lesson) **8 & 9.** Required practical – temperature change at neutralisation (2 lessons) **11, 12 & 13**. Revision (3 lessons) 14. testing positive ions (1 lesson) 15. testing negative ions (1 lesson) 16 & 17. required practical – ion testing (2 lessons) 18. Analysis (1 lesson)	
11-Sep	B	2		
18-Sep*	A	3		
25-Sep	B	4		
2-Oct	A	5		
9-Oct	B	6		
16-Oct	A	ST1		
23-Oct	B	ST1		

Prior	Current	Next
Year 7 – Acids & Alkalis Year 8 & 9 – Reactions of metals Year 10 – Quantitative chemistry & energy changes Year 10 - equilibrium & ions	Understand reactions of metals Understand neutralisation Understand how to produce a soluble salt Understand how to calculate bond energies Understand how to test for ions	Year 12 – Acids & alkalis and titrations Year 12 – Moles & quantities Year 12 –mass spectrometer & ion testing

- **GW**: Recall ions present in acids and alkalis and recall some steps in making a soluble salt and calculate moles. Recall tests for ions, recall some properties of alcohols, esters & carboxylic acids
- **BI:** Recall general equations for making a soluble salt, describe some steps in the procedure and calculate reacting masses. **BI:** describe tests for ions, recall some properties of alcohols, esters & carboxylic acids and identify the functional group
- **EW:** Write chemical equations for reactions of metals & acids and explain the step by step procedure to make a soluble salt. Calculate bond energies. describe tests and positive results for ions
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Half-Term			7 weeks (10-11 lessons) (34 Days)	
6-Nov	A	ST1	Overview of Unit/No. lessons • Electrolysis (7 lessons) Lesson **Sequence** of Content: 1. feedback (2 lessons) 2. Making a soluble salt - equations (1 lesson) 3. Required practical – making a soluble salt (1 lesson) 6 & 7. Electrolysis – molten substances (2 lessons) 8. Extraction of aluminium (1 lesson) 9 & 10. Electrolysis of solutions (2 lessons) 15. Reactions of alkenes (1 lesson) 16 & 17. Alcohols, esters & carboxylic acids (2 lessons) 11. Polymerisation (1 lesson) 12. Thermosetting & thermosoftening plastics (1 lessons) 13. DNA (1 lesson)	
13-Nov	B	10		
20-Nov	A	11		
27-Nov	B	12		
4-Dec	A	13		
11-Dec	B	14		
18-Dec	A	15		

Prior	Current	Next
Year 10 – ion formation & ionic bonding Year 8 & 9 – Reactions of metals Year 9 - Alkenes	Understand the process of electrolysis Understand how to produce a soluble salt Recall reactions of alkenes Recall properties of alcohols, esters & carboxylic acids	Year 12 – Acids & alkalis and titrations Year 12 – Alkanes, alkenes, alcohols

- **GW:** Recall some steps in making a soluble salt and recall what electrolysis is. Identify types of polymerisation
- **BI:** Recall general equations for making a soluble salt and describe some steps in the procedure, and identify products of electrolysis. Describe differences between additional and condensation polymerisation
- **EW:** explain the step by step procedure to make a soluble salt and represent electrolysis using half equations. Describe the structure od DNA
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Christmas Holiday			6 weeks (9 lessons) (30 Days)	
8-Jan	B	16	Overview of Unit/No. lessons • Combined – ST2 preparation (11 lessons) • Separates: using resources (3 lessons) Lesson **Sequence** of Content: Lesson **Sequence** of Content: 1, 2 & 3. Revision (3 lessons) 4 & 5. feedback (2 lessons) 6 & 7. required practical – electrolysis (2 lessons) 9. Haber process (1 lesson)	
15-Jan	A	17		
22-Jan	B	18		
29-Jan	A	ST2		
5-Feb	B	ST2		
12-Feb	A	ST2		

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			10. & 11. Corrosion, ceramics, composites & alloys (1 lesson) 12. Chemical & hydrogen cells (1 lesson) Exam preparation	

Prior	Current	Next
Year 8 – corrosion, composites & ceramics	Recall properties of ceramics, composites & polymers	Year 12 – N/A

- **GW:** recall properties of ceramics, composites and polymers
- **BI:** describe properties of ceramics, composites and polymers
- **EW**: recall properties of ceramics, composites and polymers and be able to evaluate their uses

Half-Term			5 weeks (7 - 8 lessons) (24 Days)	
26-Feb	B	22	GCSE Preparation	
4-Mar	A	23		
11-Mar	B	24		
18-Mar	A	25		
25-Mar*	B	26		
Easter Holiday			6 weeks (9 lessons) (29 Days)	
15-Apr	A	27	GCSE preparation	
22-Apr	B	28		
29-Apr	A	29		
6-May*	B	30		
13-May	A	GCSE		
20-May	B	GCSE		
Half-Term			7 weeks (10-11 lessons) (35 Days)	
3-Jun	A	GCSE		
10-Jun	B	GCSE		
17-Jun	A	GCSE		
24-Jun	B	Contingency		
			(Total: 190 Days)	

* Bank Holidays

Prompt Questions

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Please revisit the prompts from last year:

- What are the Key concepts for this unit?
- How will it link to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art, literature?
- How does it build on prior knowledge and link to other units, concepts, years, GCSE?
- What is it intended students will have learned?
  - For each Unit? By the end of the Year?
    - GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?
- **Assessment: how do you know they have learned the foundational concepts, curriculum and wider disciplinary knowledge? Does assessment look like GCSE light? Should it?**
- Skills used/learned
- Tier 2/3 vocabulary ((Etymology e.g. of Greek/Latin)