


YEAR 11 Separate Sciences CHEMISTRY REVISION PLAN 2019

PART	PERCENTAGE	WHAT IS IT?	DATE
Paper 1 8. Atomic theory and the periodic table 9. Chemical bonding 10. Quantitative chemistry 11. Chemical changes 12. Energy changes	50%	EXAM /100 1 hr 45 mins Multiple choice, structured, closed short answer and open response.	17 th May AM
Paper 2 13. Rate and extent of chemical change 14. Organic chemistry 15. Chemical analysis 16. Chemistry of the atmosphere 17. Using resources	50%	EXAM /100 1 hr 45 mins Multiple choice, structured, closed short answer and open response.	13 th June AM

WAYS TO REVISE:

- Question and answer cards
- Knowledge organisers
- Practical lab book
- Revision guides- reading and then testing yourself.
- Assessment questions and specification- <http://www.aqa.org.uk/subjects/science/gcse/chemistry-8462>
- GCSE Bitesize (AQA Separate sciences Chemistry)
- Your own notes, reading them, testing yourself.
- Afterschool revision
- Use the timetable for topics to revise.
- Use your mock to analyse what you need to revise.
- Seek help from science staff if you are struggling with a particular topic.
- Dedicate a specific time to revise science.
- Identify your areas of weakness and focus on them.
- Dedicate each week to specific topics.
- Get a lined paper notepad to make notes in for each topic.



Week beginning 	<u>Mon</u>	<u>Tue</u>	<u>Wed</u>	<u>Thurs</u>	<u>Fri</u>	<u>Sat</u>	<u>Sun</u>
21/01/19	Topic 8 1	Topic 8 2	Topic 8 3	Topic 8 4	Topic 9 1	Topic 9 2	Topic 9 3
28/01/19	Topic 14 1	Topic 14 2	Topic 14 3	Topic 9 4	Topic 9 8	Topic 9 9	Topic 13 1
04/02/19	Topic 13 2	Topic 13 3	Topic 13 4	Topic 15 1	Topic 15 2	Topic 15 3	Topic 15 4
11/02/19	Topic 11 1	Topic 11 2	Topic 11 3	Topic 11 4	Topic 16 1	Topic 16 2	Topic 16 3
18/02/18 <u>HALF TERM</u>	Topic 10 1	Topic 10 2	Topic 10 3	Topic 10 4	Topic 14 5	Topic 14 6	Topic 14 7
25/02/19	Topic 15 5	Topic 15 6	Topic 15 7	Topic 15 8	Topic 16 4	Topic 16 5	Topic 16 6
01/03/19	Topic 8 5	Topic 8 6	Topic 8 7	Topic 8 8	Topic 11 5	Topic 11 6	Topic 11 7
11/03/19	Topic 14 8	Topic 14 10	Topic 14 10	Topic 14 9	Topic 14 9	Topic 10 5	Topic 10 6
18/03/19	Topic 10 7	Topic 10 8	Topic 10 9	Topic 8 9	Topic 8 9	Topic 8 10	Topic 9 5
25/03/19	Topic 9 4	Topic 9 9	Topic 9 10	Topic 9 12	Topic 9 13	Topic 15 6	Topic 15 7
01/04/19	Topic 15 8	Topic 17 1	Topic 17 2	Topic 17 3	Topic 17 4	Topic 17 5	Topic 12 1
08/04/19	Topic 12 2	Topic 12 3	Topic 12 4	Topic 12 5	Topic 11 8	Topic 11 9	Topic 11 10
15/04/19 <u>EASTER</u>	Topic 8 test & Review			Topic 9 test & Review			
22/04/19 <u>EASTER</u>	Topic 10 10	Topic 10 10	Topic 11 11-14			Topic 11 test and review	Topic 10 test and review
29/04/19	Topic 12 Test and review		Complete specimen paper 1 and review				Topic 10 11

01/05/19	Topic 8 11	Topic 8 12	Topic 10 6-8	Topic 8 13
06/05/19	Topic 12 4-5	Topic 11 10-14	Topic 10 7-9	Topic 9 2-3
13/05/19	Topic 9 5	Topic 11 3-4	Topic 10 9	PAPER 1 EXAM Topic 17 7 Topic 17 8
20/05/19	Topic 17 9	Topic 13 6	Topic 13 7	Complete specimen paper 2 and review Topic 13 7-9
27/05/19 HALF TERM	Topic 16 ALL	Topic 15 ALL	Topic 17 ALL	Topic 14 7-9
03/06/19	Topic 14 6	Topic 14 9	Topic 13 5-7	Topic 10 4-8 Topic 11 4
10/06/19	Topic 14 9-12	Specimen paper 2 resit & review	PAPER 2 EXAM	CELEBRATE! 😊

Required practical

Topic 8	✓	Topic 9	✓	Topic 10	✓
Atomic theory and the periodic table		Bonding		Quantitative chemistry	
Atoms, elements and compounds	1	Chemical bonds	1	Conservation of mass and balancing equations	1
Mixtures	2	Ionic bonding	2	Relative formula mass	2
Developing model of the atom	3	Ionic compounds	3	Mass changes when a product is a gas	3
Relative electrical charges of subatomic particles	4	Covalent bonding	4	Chemical measurements	4
Size and mass of atoms	5	Metallic bonding	5	Moles	5
Relative atomic mass	6	States of matter and state symbols	6	Amount of substance in equations	6
Electronic structure	7	Properties of ionic compounds	7	Using moles to balance equations	7
The periodic table	8	Properties of small molecules	8	Limiting reactants	8
Development of the periodic table	9	Polymers	9	Concentration of solutions	9
Metals and non-metals	10	Giant covalent structures	10	Percentage yield	10
Group 0	11	Metals and alloys	11	Atom economy	11

Group 1	12	Structure and bonding in carbon	12	Molar volumes of gases	12
Group 7	13	Graphene and fullerenes	13		
Transition metals	14	Nanoparticles	14		
Topic 11 Chemical changes	✓	Topic 12 Energy changes	✓	Topic 13 Rate and extent of change	✓
Metal oxides	1	Exothermic and endothermic reactions	1	Calculating rates of reaction	1
The reactivity series	2	Reaction profiles	2	Factors which affect rate of reaction	2
Extraction of metals and reduction	3	The energy change of reactions – bond energies	3	Collision theory and rates of reaction – activation energy	3
Oxidation and reduction in terms of electrons	4	Cells and batteries	4	Catalysts	4
Reactions of metals with acids	5	Fuel cells	5	Reversible reactions	5
Neutralisation of acids and salt production	6			Energy changes and reversible reactions	6
Soluble salts	7			Equilibrium	7
pH scale and neutralisation	8			Le Chatellier's principle – concentration	8
Titrations	9			Le Chatellier's principle – temperature and pressure	9
Strong and weak acids	10				
The process of electrolysis	11				
Using electrolysis to extract metals	12				
Electrolysis of solutions	13				
Reactions as half equations	14				
Topic 14 Organic chemistry	✓	Topic 15 Chemical analysis	✓	Topic 16 Chemistry of the atmosphere	✓
Crude oil and hydrocarbons	1	Pure substances	1	Gases in the atmosphere	1
Fractional distillation and petrochemicals	2	Formulations	2	The Earth's early atmosphere	2
Properties of hydrocarbons	3	Chromatography	3	How CO ₂ and O ₂ changed in the atmosphere	3
Cracking and alkenes	4	Testing for gases	4	Greenhouse gases and human activity	4
Structure and formulae of alkenes	5	Flame testing	5	Global climate change and carbon footprint	5

Reactions of alkenes	6	Testing for cations	6	Atmospheric pollution	6
Alcohols	7	Testing for anions	7		
Carboxylic acids	8	Instrumental analysis and emission spectroscopy	8		
Addition polymers	9				
Condensation polymers	10				
Amino acids	11				
DNA and other naturally occurring polymers	12				
Topic 17	✓				
Using resources					
Using resources and sustainable development	1				
Potable water	2				
Waste water treatment	3				
Alternate methods of extracting metals	4				
Life cycle assessment and recycling	5				
Corrosion and its prevention	6				
Alloys as useful materials	7				
Ceramics, polymers and composites	8				
The Haber process	9				
Production of fertilisers	10				