Y7-Y11 Science Assessment Information 2022-23

Year 7-11 Assessment Information 2022-23 – Science

Year 7 and Year 8 Curriculum

Science Y7-8

Year 7 - 2021 - 8 hours a fortnight

For order of topics - follow the separate topic guide.		Lessons required*	Lessons avaiable
Half Term 1	8 Weeks	27	30
Organisation (11) Energy (3) Particle Model (4) Models - The Particle Model (2) Ratios, fractions & percentages (2) Energy in food investigation - links to organisation (5)			
Half Term 2	7 Weeks	25	28
Cells and Transport (4) Chemistry of the Atmosphere (5) Variation (3) Assessment AP1 (3) - All content and maths skills from HT1 Bioenergetics (2) Writing like a scientist - Impact of humans (2) Maths Skills Decimals and Significant Figures (3) Diffusion investigation - links to cells and transport (3)			
Half Term 3	6 Weeks	25	24
Cells and Transport (2) Chemical Changes (4) inc atomic structure (1) Electricity (4) and Magnetism (1) Bioenergetics (3) Waves (6) Establishing scientific knowledge (1) Battery size investigation (3) - Links to electricity topic			
Half Term 4	6 Weeks	22	24
Atomic Structure States of Matter (7) Assessment AP2 -All content and maths skills from HT 1-3 (3) Space (3) Atomic Structure - Atomic Model (5) Carbonates Investigation (3) Mean, mode and median (1)			
Half Term 5	6 Weeks	20	24
Atomic Structure - Separating Mixtures (6) Forces (7) Models - Model of the atom (2) Maths Skills Scientific equations (2) Dissolving Investigation - links to atomic structure (3)			
Half Term 6	6 Weeks	20	24
Assessment AP3 -All content and maths skills from HT1-5 (3) Ecology (4) Rates of Reaction (3) Energy Changes (3) Orders of magnitude and population sizes (2) Using evidence to develop explainations - Biodiversity (2) Seeds Investigation- links with Ecology (3)			

Year 8 2021 7 hours a fortnight

For order of topics - follow the separate topic guide.		Lessons required*	Lessons avaiable
Half Term 1	8 Weeks	27	26
Recap/consolidation of year 7 work (3) Cells and transport (6) Atomic Structure (5) Energy (5) Quantitative Chemistry (5) Energy and Insulation investigation - Links to energy (3)			
Half Term 2	7 Weeks	23	24
Infectious Disease (2) Bonding (2) Particle model (2) Assessment AP1 (3) - All content and maths skills from HT1 + Year 7 Chemical changes (10) Surface area and volume (1) Acids and Bases investigation - links to chemical changes (3)			
Half Term 3	6 Weeks	22	21
Organisation (10) Electricty and magetism (5) Energy Changes (2) Variables (1) Scatter diagrams and correlaton (1) Electromagnets investigation - links to electricity and magnetism (3)			
Half Term 4	6 Weeks	18	21
Bioenergetics (3) Space (2) Assessment AP2 - All content and maths skills from HT1-3 + Year 7 (3) Bonding (2) Organic Chemistry (2) Bar charts & histograms (1) Data analysis (2) Respiration Investigation- links to bioenergetics (3)			
Half Term 5	6 Weeks	20	21
Organisation plants (4) Waves (7) Chemistry of the atmosphere (3) Mini Project (2) Waves Investigation - links to waves (3) Scientific equations (1)			
Half Term 6	6 Weeks	21	21
Assessment AP3 - All content and maths skills from HT1-5 + Year 7 (3) Variation and Ecology (5) Forces (6) Using Resources (2) Communicating ideas (2) Variation Investigation - links to ecology and variation (3)			

Year 7-11 Assessment Information 2022-23 – Science

Science Y9 -11 2021-22

Year 9 7 - hours a fortnight

For order of topics - follow the separate topic guide.	Lessons required*	Lessons avaiable
Half Term 1 8 Weeks	28	26
Atomic Stuture and Quantitative Chemistry Part 1 (16)		
Space (3/5)		
Assessment AP1 (3) Atomic Struture and Quatitatve Chemistry Part 1.		
Cells (11)		
Half Term 2 7 Weeks	23	24
RP (3)		
RP (3)		
Assessment Feedback (1)		
Particle Model (5)		
RP (4)		
Half Term 3 6 Weeks	20	21
Bonding (10)		
Assessment AP2 (4) - All HT 1- 2 Content		
Communicating ideas (2)		
Feedback, Intervention + Consolidation (4)		
Half Term 4 6 Weeks	22	21
Energy Changes (2)		
Energy (8)		
RP (3)		
RP (3)		
Maths Skills (2)		
Core Knowledge Power Up (4)		
Half Term 5 6 Weeks	23	21
Chemical Changes (10)		
RP (3)		
RP (2)		
Command Words (4)		
PPE (4) All work covered HT 1-4		
Half Term 6 6 Weeks	19	21
Infectious Disease (8)		
Electricty - Appliances (5)		
Communicating ideas (2)		
Graph Skills (4)		

Year 10 - 9 hours a fortnight

All topics on each line must be taught before moving to the line below. RP to be taught at an appropriate point within or after the topic	Lessons required*	Lessons avaiable
Half Term 1 8 Weeks	35	34
Recap/consolidation of year 9 work (4)		
Organisation (14)		
RP (3)		
RP (2)		
Atomic structure (8)		
Assessment AP1 All Year 9 Content (4)		
Half Term 2 7 Weeks	31	31
Quatitative Chemistry Part 2 (4)		
Feedback, Intervention + Consolidation (3)		
Electricty - Circuits (6)		
RP (3)		
RP (3)		
Rates of Reaction (8)		
RP (4)		
Half Term 3 6 Weeks	18	27
Core Knowledge Power Up (4)		
Bioenergetics (9)		
RP (3)		
Assessment AP2 - All Paper 1 content		
Forces (15)		
Half Term 4 6 Weeks	27	27
RP (3)		
RP (3)		
Feedback, Intervention + Consolidation (2)		
Organic Chemistry (4)		
Variation (14)		
Half Term 5 6 Weeks	28	27
Chemistry in the atmosphere (5)		
Ecology (10)		
RP (3)		
Half Term 6 6 Weeks	21	27
Magnetism(4)		
Core Knowledge Power Up (4)		
Paper 1 PPEs All Paper 1 (9)		
Feedback, Intervention + Consolidation (4)		

Year 11 22-23 9 - hours a fortnight

All topics on each line must be taught before moving to the line below. RP to be taught at an appropriate point within or after the topic	Lessons required*	Lessons avaiable
Half Term 1 8 Weeks	36	34
Core Knowledge Power Up (4)		
Chemical Analysis (3)		
RP (2)		
Homeostasis (7)		
Waves (5)		
RP (3)		
RP (5)		
Using resources (7)		
Half Term 2 7 Weeks	30	31
RP (3)		
Paper 2 PPE All Paper 2		
Cells/Organisation/ Infectious disease		
End of units assessment		
Atomic structure/ Bonding/ Quantitative chemistry		
Feedback, Intervention + Consolidation (4)		
Half Term 3 6 Weeks	28	27
End of units assessment		
Particle model/Atomic Structure/Energy		
End of units assessment		
Bioenergetics/Ecology		
Biology Paper 1		
Energy Changes/Chemical Changes		
Half Term 4 6 Weeks	16	27
Chemistry Paper 1		
Paper 1 and Paper 2 PPEs		
Electricity		
Physics Paper 1		
Variation/Homeostasis/Rates		
Organic/Chem analysis/ Chem of the atmosphere		
Half Term 5 6 Weeks		
Forces/Magnetism/Waves		
Targetted Revision		
GCSE		
Half Term 6 6 Weeks	27	27

Year 7-11 Assessment Information 2022-23 – Science

	Year group	Date	Assessment	Topics			Length
Autumn 1	9	12th Sept – 7th October	Assessment point 1	Y7 and Y8 core knowledge Y9 Half term 1 – Atomic structure and quantitative chemistry part 1.			1 x ≈ 70-mark paper (two parts) (H+F)
	10	12th Sept – 7th October	Assessment point 1	Cells Infectious Disease	Atomic structure Bonding Energy Changes Chemical Changes Quantitative chemistry Part 1	Particle Model Energy Electricity – Appliances	3 x ≈ 50-mark papers. (H+F)
Autumn 2	11	14th Nov – 25th Nov	Assessment point 1 PPE	All Paper 2 content.			3 x 70-mark papers/100-mark papers (Triple)
				Cells Infectious disease Organisation. Bioenergetics	Atomic structure Quantitative chem Bonding Energy Changes Chemical Changes	Energy Particle model Electricity Atomic Structure	
	7	7th Nov – 25th Nov	Assessment point 1	Half term 1 content. Organisation, particle model, energy and maths skills.			1 x ≈ 45-mark paper – (One tier)

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Autumn 2	8	7th Nov – 25th Nov	Assessment point 1	All Y7 core knowledge Y8 Half term 1 – Cells and transport, atomic structure, quantitative chemistry, energy.			1 x ≈ 45-mark paper – (One tier)
Spring 1	9	9th Jan – 20th Jan	Assessment point 2	Y7 and Y8 core knowledge and Y9 half terms 1 &2.			3 x ≈ 35-mark paper (H+F)
				Cells	Atomic structure & quant chemistry part 1.	Particle model	
	10	9th Jan – 27th Jan	Assessment point 2	Cells Infectious Disease Organisation	Atomic structure Bonding Energy Changes Chemical Changes Quantitative chemistry	Particle Model Atomic Structure Electricity Energy	3 x 70-mark papers H/F
Spring 2	11	6th March – 17th March	Assessment point 2 PPE	All Paper 2 content			3 x 70-mark papers/100-mark papers (Triple) Higher and foundation.
				Ecology Variation Homeostasis	Rates Organic Chemistry Chem of the atmosphere. Chemical analysis. Using Resources.	Forces Magnetism Waves (Space)	
	8	6th March – 24th March	Assessment point 2	Year 7 core knowledge – Y8 content from half terms 1-3			1 x ≈ 45-mark paper – (One tier)
				Cells Infectious disease Organisation.	Atomic structure Quantitative chem Bonding Energy Changes Chemical Changes. Organic.	Energy Particle model Electricity & magnetism Waves	

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					Chemistry of the atmosphere		
	7	6th March – 24th March	Assessment point 2	All Year 7 content from half terms 1-3			1 x ≈ 45-mark paper – (One tier)
				Cells Organisation Variation Bioenergetics	Chemistry of the atmosphere Chemical Changes	Energy Particle model Electricity Waves	
Summer 1	9	24th April – 26th May	Assessment point 3	Cells	Atomic structure & quant chemistry part 1. Bonding Energy Changes	Particle model Atomic Structure	3 x 45-minute papers
	11	20th March – 12th May		All Paper 1 content.			3 x 70-mark papers/100-mark papers (Triple) Higher and Foundation.
				Cells Infectious disease Organisation. Bioenergetics	Atomic structure Quantitative chem Bonding Energy Changes Chemical Changes	Energy Particle model Electricity Atomic Structure	

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Summer 2	8	12th June – 30th June	Assessment point 3	Year 7 core knowledge All Y8 content from half terms 1-5			3 x ≈ 35-mark papers (H+F)
				Cells Infectious disease Organisation. Bioenergetics	Atomic structure Quantitative chem Bonding Energy Changes Chemical Changes	Energy Particle model Electricity & Magnetism Space	
	7	12th June – 30th June	Assessment point 3	All Y7 content from half terms 1-5			1 x ≈ 45-mark paper – (One tier)
				Cells Organisation Variation Bioenergetics	Chemistry of the atmosphere Chemical Changes Atomic structure	Energy Particle model Electricity Waves Space Forces	
Summer 2	10	12th June – 30th June	Assessment point 3 PPE	All Paper 1 content.			3 x 70-mark papers/100-mark papers (Triple) Higher and foundation.
				Cells Infectious Disease Organisation Bioenergetics.	Atomic Structure Quantitative Part 1&2 Bonding Energy Changes Chemical Changes.	Energy Particle Model Atomic Structure Electricity	

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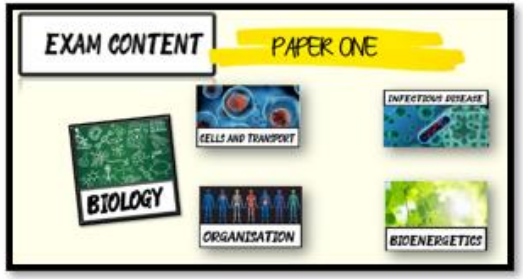

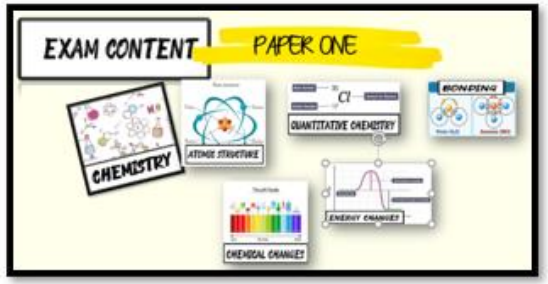

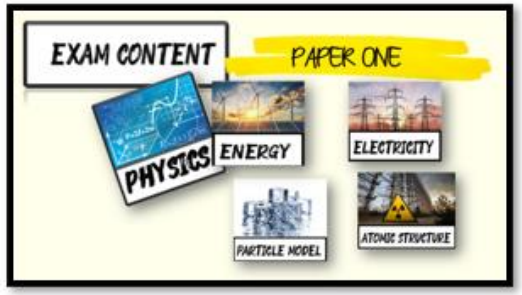

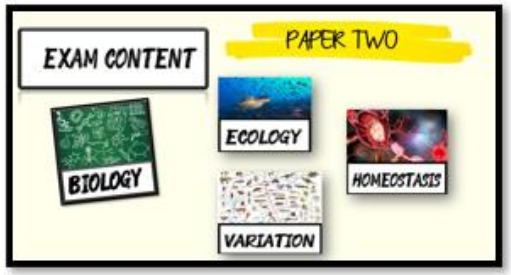

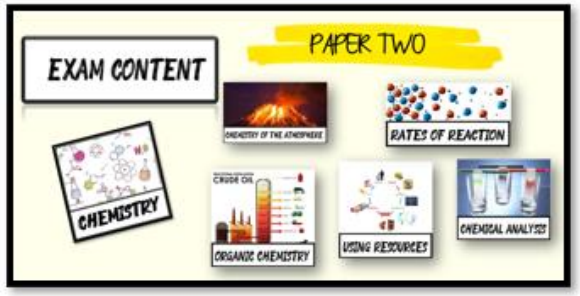

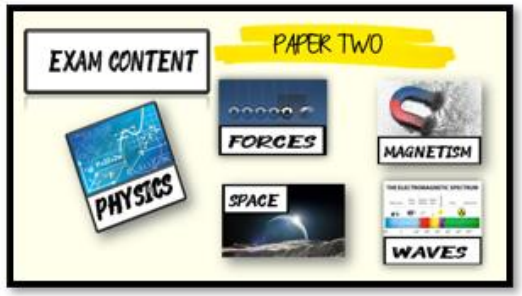

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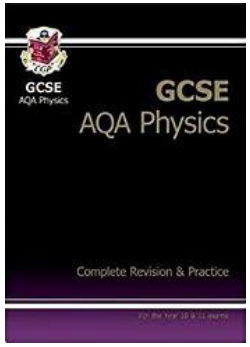
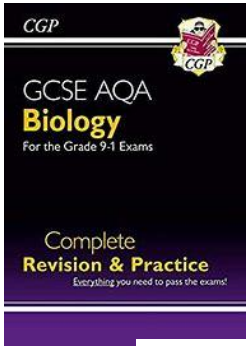
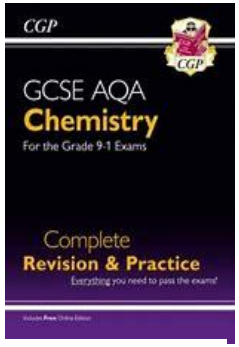
Revision guides are available from school. These would be extremely useful if you have not got one already.

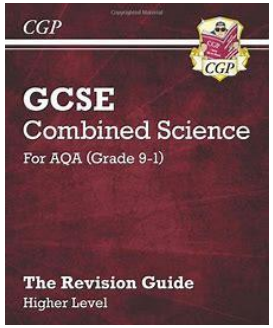
Triple Science

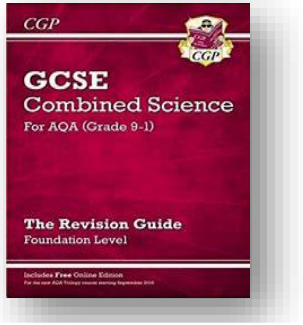
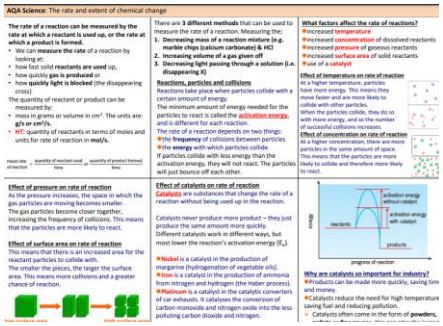
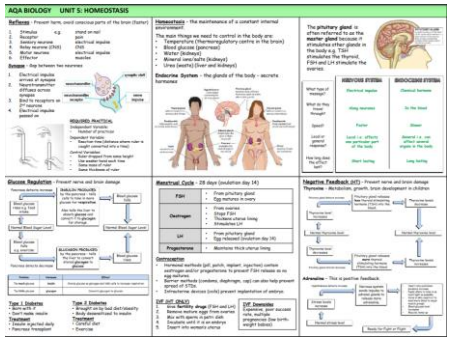






Combined Trilogy Higher and Foundation





Core Knowledge Organisers are available on the school website.