

Curriculum Map

B is the topic number for biology
 C is the topic number for chemistry
 P is the topic number for physics
 L is the lesson number in this topic
 e.g. P1 L01 is the first lesson in the first physics topic.

Year 10 Combined Science

		Phys + Chem		Bio + Chem	
Date	Week	Lesson 1	Lesson 2	Lesson 1	Lesson 2
1-Sep	1	Missed lessons at the start of year	P1 Energy L01 Energy stores and transfers	Missed lessons at the start of year	B2 Organisation and the digestive system L01 Tissue, organs, and the digestive system
8-Sep	2	L02 Conservation of energy and work done	L03 GPE, KE and Elastic Potential Energy Equations	L02 Carbohydrates, lipids, and Proteins	L03 Required practical 3 food tests
15-Sep	3	L04 Energy Calculation Practice	L05 Conservation of Energy with Equations	L04 Enzymes and factors affecting enzymes	L05 Required practical 4 enzymes
22-Sep	4	L06 Dissipation and Efficiency	L07 Energy and Power	L06 Blood and Blood vessels	L07 The heart
29-Sep	5	L08 Energy and power	L09 Energy Application Questions	L08 Breathing and gas exchange	L09 Heart valve replacements and artificial pacemakers



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6-Oct	6	L10 Power Stations and Energy Demands	L11 Solar, Wind and Water Energy resources	L10 Tissues and organs in plants and transport systems	L11 Evaporation, transpiration and Factors affecting transpiration
13-Oct	7	L12 Solar energy, wind, and wave energy	L13 Nuclear Energy	C1 and C8 L01 Pure Substances and formulations	L02 Separation techniques
20-Oct	8	L14 Energy transfer by Conduction	L15 Specific Heat Capacity Theory and Equation	L03 Required Practical - Chromatography	L04 Testing for gasses
HALF TERM					
3-Nov	9	Assessment Autum Data Drop	L16 Specific Heat Capacity Practical	Y10 Assessment Week	L05 Atomic Structure Recap and Group 1
10-Nov	10	L17 SHC Evaluation and Exam Practice	L18 Heating and Insulating Buildings	L06 Group 1 Demo	L07 Group 7
17-Nov	11	Review Assessment	P3 Particle Model of Matter L01 Density theory and calculations	Review Assessment	B3 Infection and Response and B1 Cell Division L01 Pathogens
24-Nov	12	L02 Density Required Practical	L03 Density extended writing response (feedback task)	L02 Viral diseases	L03 Bacterial Diseases
8-Dec	13	L04 States of matter (+ Improve density feedback task)	L05 Changes of state	L04 Fungal and Protists diseases	L05 Human defences
15-Dec	14	C2 Bonding L01 Ionic bonding - dot and cross	Buffer Lesson	L06 Vaccinations	Buffer lesson
22-Dec	15	End of term - may not have lessons		End of term - may not have lessons	
END OF TERM					
5-Jan	16	L02 Ionic Bonding - describing ionic bonding	L03 Atomic Size and reactivity	L07 Antibiotics and painkillers	L08 Discovering drugs AND developing drugs
12-Jan	17	L04 Ionic structures	L05 Covalent bonding - dot and cross	L09 non-communicable diseases	L10 Cell Division



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19-Jan	18	L06 Simple covalent molecules	L07 Giant covalent molecules	L11 Stem cells and differentiation (with therapeutic cloning)	L12 Stem cell dilemmas
26-Jan	19	L08 Graphene, fullerenes, and nanotubes	L09 Polymers	L13 Cell division consolidation	L14 Cancer and smoking
2-Feb	20	L10 Metallic bonding and Alloys	L11 Identifying types of structures	L15 Alcohol, other carcinogens, diet, and exercise	B5 Homeostasis Part 1 L01 Principles of homeostasis
9-Feb	21	P6 L06 Internal Energy (Cooling of stearic acid)	L07 Specific Latent Heat Theory	L02 Structure and function of nervous system	<i>Buffer lesson</i>
HALF TERM					
23-Feb	22	Assessment week	L08 SLH and SHC Calculations	Assessment week	L03 Reflexes
2-Mar	23	L09 Gas pressure and temperature	L10 Molecules and Matter Revision	L04 Required practical 6 reaction time	B7 Ecology L01 Communities, Competition, abiotic and biotic factors
9-Mar	24	Assessment feedback	P4 Atomic Structure L01 Atomic Structure recap	Assessment feedback	L02 Adaptations in animals and plants
16-Mar	25	L02 Alpha, beta, and gamma properties	L03 Changes in the nucleus (demo of sources)	L03 Feeding relationships	L04 Distribution and Abundance
23-Mar	26	L04 Half-life definition and graphs	L05 Half-life calculations	L05 Required practical 7 field investigations	L06 Required practical 7 field investigations (feedback task)
END OF TERM					
13-Apr	27	L06 Uses of radiation	C3 Quantitative Chemistry P1 L01 Conservation of mass	L07 Materials and cycling and the carbon cycle	L08 The human population growth
20-Apr	28	L02 Balancing equations	L03 Balancing equations	L09 Air pollution and Land and water pollution	L10 Deforestation and peat destruction
27-Apr	29	L03 Relative formula mass	L04 Percentage by mass	L11 Global warming	L12 Maintaining biodiversity



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4-May	30	L05 Concentration	L06 Concentration - changing the subject	C7 Crude oil L01 Alkanes	L02 Alkane properties
11-May	31	P2 Electricity L01 Circuit drawing and symbols	L02 Current and Charge	L03 Crude oil and fractional distillation	L04 Cracking and alkenes
18-May	32	L03 Potential difference	L04 Resistance	L05 Combustion	C9 Chemistry of the Atmosphere L01 History of the atmosphere
HALF TERM					
1-Jun	33	L05 Resistance of a wire required practical	L06 I-V characteristic graphs 1	L02 Greenhouse effect	L03 Global climate change and carbon footprint
8-Jun	34	L07 I-V characteristic graphs 2	L08 I-V characteristic graphs exam questions (EW question)	L04 Atmospheric Pollutants	Using resources L01 Water Treatment
15-Jun	35	L09 Series circuits rules	L10 Parallel circuit rules	L02 Wastewater treatment	L03 Potable water RP
22-Jun	36	Y10 Assessment Week	Revision of Year 10 Content	Y10 Assessment Week	Revision of Year 10 Content
29-Jun	37	L11 Circuit Rules	L01 Exothermic and endothermic reactions and reaction profile diagrams	L05 Finite Resources and Life-cycle assessment	L04 Reduce, Reuse recycle
6-Jul	38	L02 Energy changes required practical	Assessment feedback	Assessment feedback	Assessment feedback
13-Jul	39	Revision of Year 10 Content	Revision of Year 10 Content	Revision of Year 10 Content	Revision of Year 10 Content