Guiseley School Revision Support

Subject: Science – Combined Higher – Feb PPEs – Paper 2 Only

The URL for Guiseley School Science Resources can be found here:
https://guiseleyschool.sharepoint.com/sites/GS_Subjects_SC/Year%2011/Forms/AllItems.aspx

Here you will find lots of resources including Knowledge Organisers and Past Paper Questions.

The 'Subject Area' on the table below refers to the areas that AQA will examine. How well do you know it? Tick the face for each then focus your revision on the areas with a 😐 or ☹.

Good Luck and ask your teacher if you are stuck!

All Papers

	Topic	Subject Area	Exercise book/notes			
All Papers	**Working Scientifically**	The Scientific Method				
		Communication and Issues Created by Science				
		Risk and Risk Management				
		Designing Investigations				
		Collecting Data				
		Processing and Presenting Data				
		Units and Equations				
		Drawing Conclusions				
		Uncertainties and Evaluations				

Biology Paper 2

	Topic	Subject Area	Exercise book/notes			
PAPER 2	**B5 Homeostasis and Response**	Homeostasis				
		The Nervous System				
		Synapses and Reflexes				
		Investigating Reaction Times - RPA				
		The Endocrine System				
		Controlling Blood Glucose				
		Puberty and the Menstrual Cycle				
		Controlling Fertility				
	B6 Inheritance, Variation, Evolution	DNA				
		Reproduction				
		Meiosis				
		X and Y Chromosomes				
		Genetic diagrams				
		Inherited Disorders				
		Family trees and embryo screening				
		Variation				
		Evolution				
		Antibiotic-Resistant Bacteria				
		Selective Breeding				
		Genetic engineering				
		Fossils				
		Classification				
PAPER 2	**B7 Ecology**	Competition				
		Biotic and Abiotic factors				
		Adaptions				
		Food chains				
		Using quadrats and transects RPA				
		The water cycle				
		The carbon cycle				
		Biodiversity and Waste Management				
		Global Warming				
		Deforestation and Land Use				
		Maintaining Ecosystems and Biodiversity				

Chemistry Paper 2

Questions in paper 2 may draw on an understanding of atomic structure and the periodic table and quantitative chemistry from Paper1.

	Topic	Subject Area	Exercise book/notes	☺	😐	☹
PAPER 2	**C6 Rate and Extent of Chemical Changes**	Rates of Reaction				
		Factors affecting rate of reaction RPA				
		Finding reaction rates from graphs				
		Reversible reactions				
		Le Chatelier's Principle				
	C7 Organic Chemistry	Hydrocarbons				
		Crude oil				
		Fractional distillation				
		Cracking				
PAPER 2	**C8 Chemical Analysis**	Purity and formulations				
		Paper chromatography RPA				
		Using Chromatograms				
		Tests for Gases				
	C9 Chemistry of the Atmosphere	Evolution of the Atmosphere				
		Climate change and Greenhouse Gases				
		Carbon Footprint				
		Air pollution				
PAPER 2	**C10 Using Resources**	Finite and Renewable Resources				
		Reuse and Recycling				
		Life Cycle Assessments				
		Potable Water				
		Desalination				
		Waste water treatment				

Physics Paper 2

Questions in paper 2 may draw on an understanding of energy changes and transfers due to heating, mechanical and electrical work and the concept of energy conservation from Energy and Electricity from Paper 1.

	Topic	Subject Area	Exercise book/notes	☺	😐	☹
PAPER 2	**P5 Forces**	Contact and Non-Contact Forces				
		Weight, Mass and Gravity				
		Resultant Force and Work Done				
		Forces and Elasticity				
		Investigating Springs				
		Distance, Displacement, Speed and Velocity				
		Acceleration				
		Distance-time and Velocity-time graphs				
		Terminal velocity				
		Inertia and Newton's First Law				
		Newton's Second Law				
		Newton's Third Law				
		Investigation Motion				
		Stopping Distance and Thinking Distance				
		Braking Distance				
		Reaction Times				
		Momentum				
	P6 Waves	Transverse and Longitudinal waves				
		Frequency, Period and Wave Speed				
		Refraction				
		Electromagnetic (EM) Waves				
		EM waves and their uses				
		Investigating Infra-red radiation RPA				
		Dangers of EM waves				
	P7 Magnetism and Electromagnetism	Permanent and Induced Magnets				
		Electromagnetism				
		The Motor Effect and Electric Motors				