Combined Science Physics

Торіс	Done in Class	RAG	Revised	RAG				
P1 Energy and energy resources – Paper 1								
Changes in energy stores								
Conservation of energy								
Energy and work								
Gravitational potential energy stores								
Kinetic energy and elastic energy								
Energy dissipation								
Energy and efficiency								
Electrical appliances								
Energy and power								
P2 Energy transfers	s by heating -	– Paper 1						
Energy transfer by conduction								
Specific heat capacity								
Heating and insulating buildings								
P3 Energy res	ources – Pap	er 1						
Energy demands								
Energy from wind and water								
Power from the Sun and Earth								
Energy and the environment								
Big energy issues								
P4 Electric ci	rcuits – Pape	r 1						
Current and charge								
Potential difference and resistance								
Component characteristics								
Series circuits								
Parallel circuits								
P5 Electricity in t	the home – P	aper 1						
Alternating current								
Cables and plugs								
Electrical power and potential difference								
Electrical currents and energy transfer								
Appliances and efficiency								
P6 Molecules ar	d matter – P	aper 1						
Density								
States of mater								
Changes of state								
Internal energy								
Specific latent heat								
Gas pressure and temperature								
	ivity – Paper	1						
Atoms and radiation								
The discovery of the nucleus								
Changes in the nucleus								
More about alpha, beta and gamma radiation								
Activity and half-life								
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Торіс	Done in Class	RAG	Revised	RAG			
P8 Forces in balance – Paper 2							
Vectors and scalars							
Forces between objects							
Resultant forces							
Centre of mass							
The parallelogram of forces HT							
Resolution of forces HT							
P9 Motio	P9 Motion – Paper 2						
Speed and distance-time graphs							
Velocity and acceleration							
More about velocity-time graphs							
Analysing motion graphs							
P10 Force and	motion – Pa	per 2					
Force and acceleration							
Weight and terminal velocity							
Forces and braking							
Momentum HT							
Forces and elasticity							
P11 Force and pressure – Paper 2 TRIPLE ONLY							
P12 Wave pro	perties – Par	per 2					
The nature of waves							
The properties of waves							
Reflection and refraction HT							
More about waves							
P13 Electromagn	etic waves –	Paper 2					
The electromagnetic spectrum							
Light, infrared, microwaves and radio waves							
Communication							
Ultraviolet, X-rays and gamma rays							
X-rays in medicine							
P14 Light – Pap							
P15 Electromagnetism – Paper 2							
Magnetic fields							
Magnetic fields of electric currents							
The motor effect HT							
P16 Space – Paper 2 TRIPLE ONLY							

Topic	Done in Class	RAG	Revised	RAG		
Required practicals paper 1						
Specific heat capacity (Energy transfer by						
heating)						
Thermal insulation (Energy transfer by						
heating)						
Resistance (Electric circuits)						
I-V characteristics (Electric circuits)						
Density (Molecules and matter)						
Required practicals paper 2						
Force and extension (Force and motion)						
Acceleration (Force and motion)						
Waves (Wave properties)						
Radiation and absorption (Electromagnetic						
waves)						