<u>Trilogy (Combined) Higher PHYSICS Checklist – Paper 1</u>

Green – topics assessed

Black – may appear as low mark question or via 'linked questions'

Red – topics NOT assessed

Topic 1 - Energy			
6.1.1 – Energy Changes in a system	Energy Stores and systems		
	Changes in Energy		
	Energy Changes in systems		
	Power		
	Required practical activity 14: Investigating Heat Capacity		
6.1.2 – Conservation and dissipation	Energy Transfers in a system		
	Efficiency		
6.1.3 National and	Energy Resources		
	Wind, Solar and Geothermal		
Global Energy resources	Hydroelectricity, Waves and Tides		
	Trends in Energy uses		
Topic 2 - Electricity			
	Standard circuit diagram symbols		
	Electrical charge and current		
6.2.1 Current, Potential Difference	Current, resistance and potential difference		
and resistance	Resistors		
	Required practical activity 15: Resistance of a wire + resistors		
	Required practical activity 16: I-V graphs		
	Series Circuits		
6.2.2 Series and Parallel Circuits	Parallel circuits		
	Adding resistors		
6.2.2 Domostic Hoos	AC/DC and potential difference		
6.2.3 Domestic Uses and Safety	Mains Electricity		
	Plugs and safety	 	
6.2.4 Energy Transfers	Power		
	Energy Transfer in everyday appliances		

	National Grid			
Topic 3 – Particle Model				
6.3.1 Particle Model of matter	Density			
	Change of state			
	Required practical activity 17: Density of solids and liquids			
6.3.2 Internal Energy and transfers	Internal energy			
	Temperature change in a system			
	Specific latent heat			
6.3.3 Particle model and pressure	Particle motion in gases			
Topic 4 – Atomic Structure				
	Structure of an atom			
6.4.1 Atoms and	Mass number, atomic number and isotopes			
isotopes	Development of the atom			
6.4.2 Atoms and nuclear radiation	Radioactive decay			
	Nuclear equations			
	Half-lives			
	Radioactive Contamination			

<u>Trilogy (Combined) Higher PHYSICS Checklist – Paper 2</u>

Green – topics assessed

Black – may appear as low mark question or via 'linked questions'

Red – topics NOT assessed

Topic 5 - Forces			
Topic 5 - Forces	Scalar and Vectors		
6.5.1 Forces and their interactions			
	Contact and non contact		
	Gravity		
	Resultant Forces		
6.5.2 Word done and energy transfer	Work done		
6.5.3 Forces and	Hooke's Law		
Elasticity	Required practical activity 18: Hooke's Law and extension		
	Describing motion along a line		
	Distance and displacement		
	Speed		
	Velocity		
	Distance time graphs		
	Acceleration		
6.5.4 Forces and motion	Newton's First Law		
motion	Newton's second Law		
	Newton's third Law		
	Forces and braking		
	Stopping distance		
	Reaction time		
	Braking distance		
	Required practical activity 19: Force and acceleration		
6.5.5 Momentum	Momentum in moving		
(Higher)	Conservation of momentum		

Topic 6 - Waves			
6.6.1 Waves in air,	Transverse and Longitudinal Waves		
fluids and solids	Properties of waves		
	Required practical activity 20: Ripple tank and waves on a string		
6.6.2 Electromagnetic Waves	Types of EM Waves		
	Properties of EM Waves		
	Uses of EM Waves		
	Refraction		
	Emission and Absorption		
	Required practical activity 21: Emission and absorption of a surface		
Topic 7- Magnetism an	d Electromagnetism		
6.7.1 Permanent and induced magnets	Poles of a magnet		
	Magnetic Fields		
6.7.2 Motor Effect	Electromagnets and solenoids		
	Flemings left hand rule (Higher only)		
	Electric Motors (Higher only)		