



AQA COMBINED SCIENCE CHECKLISTS

8464 TRILOGY

Physics Paper 1

"Student's today; Scientists for life"

Combined Physics Paper 1

Energy					
	Content	RAG	Revision guide pages		
			COMB F	COMB H	TRIPLE PHYS
6.1.1.1	Energy stores and systems		167	167	11
6.1.1.2	Changes in energy		168	168	12
6.1.1.3	Energy changes in systems		169	168	12
6.1.1.4	Power		172	170	14
6.1.2.1	Energy transfers in systems		170	169	15
RP 14	★ Required practical – specific heat capacity		171	169	13
6.1.2.2	Efficiency		173-4	171-2	17
6.1.3	National and global energy resources		175-9	173-7	18-22
Electricity					
6.2.1.1	Standard circuit diagram symbols		180	179	24
6.2.1.2	Electrical charge and current		180	179	24
6.2.1.3	Current, resistance and potential difference		181	180	25
6.2.1.4	Resistors		183-4	181-2	26-27
RP 15	★ Required practical – resistance		182	180	25
RP 16	★ Required practical – V-I characteristics		183	181	26
6.2.2	Series and parallel circuits		185-7	183-5	28-30
6.2.3.1	Direct and alternating current		188	186	31
6.2.3.2	Mains electricity		188	186	31
6.2.4.1	Power		190	187-8	33
6.2.4.2	Energy transfers in everyday appliances		189	187	32
6.2.4.3	The national grid		191	189	34

Particle model of matter









	Content	RAG	Revision guide pages		
			COMB F	COMB H	TRIPLE PHYS
6.3.1.1	Density of materials		194	192	38
RP 17	★Required practical – density		194	192	38
6.3.1.2	Changes of state		195	193	39
6.3.2.1	Internal energy		195	193	39
6.3.2.2	Temperature changes in a system and specific heat capacity		195	193	39
6.3.2.3	Changes of heat and specific latent heat		196	194	40
6.3.3.1	Particle motion in gases		193	191	41

Atomic structure




6.4.1.1	The structure of an atom		197	195	43
6.4.1.2	Mass number, atomic number and isotopes		198	196	44
6.4.1.3	The development of the model of the atom		104	195	43
6.4.2.1	Radioactive decay and nuclear radiation		198	196-7	44
6.4.2.2	Nuclear equations		199	197	45
6.4.2.3	Half-lives and the random nature of radioactive decay		200	198	46
6.4.2.4	Radioactive contamination		201	199	47










Combined Physics Paper 1

Energy



	Content	RAG	QR Codes
6.1.1.1	Energy stores and systems		
6.1.1.2	Changes in energy		
6.1.1.3	Energy changes in systems		
6.1.1.4	Power		
6.1.2.1	Energy transfers in systems		
RP 14	★ Required practical – specific heat capacity		
6.1.2.2	Efficiency		
6.1.3	National and global energy resources		






Electricity

6.2.1.1	Standard circuit diagram symbols		
6.2.1.2	Electrical charge and current		
6.2.1.3	Current, resistance and potential difference		








6.2.1.4	Resistors		
RP 15	★ Required practical – resistance		
RP 16	★ Required practical – V-I characteristics		
6.2.2	Series and parallel circuits		
6.2.3.1	Direct and alternating current		
6.2.3.2	Mains electricity		
6.2.4.1	Power		
6.2.4.2	Energy transfers in everyday appliances		
6.2.4.3	The national grid		

Particle model of matter

	Content	RAG	QR Codes
6.3.1.1	Density of materials		
RP 17	★ Required practical – density		

6.3.1.2	Changes of state		
6.3.2.1	Internal energy		
6.3.2.2	Temperature changes in a system and specific heat capacity		
6.3.2.3	Changes of heat and specific latent heat		
6.3.3.1	Particle motion in gases		

Atomic structure

6.4.1.1	The structure of an atom		
6.4.1.2	Mass number, atomic number and isotopes		
6.4.1.3	The development of the model of the atom		
6.4.2.1	Radioactive decay and nuclear radiation		
6.4.2.2	Nuclear equations		
6.4.2.3	Half-lives and the random nature of radioactive decay		
6.4.2.4	Radioactive contamination		



AQA COMBINED SCIENCE CHECKLISTS

8464 TRILOGY















Paper 2













Combined Physics Paper 2
















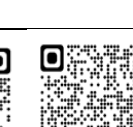
	Content	RAG	Revision guide pages		
			COMB F	COMB H	TRIPLE
Forces					
6.5.1.1	Scalar and vector quantities		203	201	51&54
RP 18	★ Required practical – forces and extension		206-7	206	56
6.5.1.2	Contact and non-contact forces		203	201	51
6.5.1.3	Gravity		204	202	52
6.5.1.4	Resultant forces		205	204	53
6.5.2	Work done and energy transfer		205	203	53
6.5.3	Forces and elasticity		206	205	55
6.5.4.1	Describing motion along a line		210	209	62
6.5.4.1.1	Distance and displacement		208	207	60
6.5.4.1.2	Speed		208	207	60
6.5.4.1.3	Velocity		211	210	60&63
6.5.4.1.4	The distance-time relationship		210	209	62
6.5.4.1.5	Acceleration		209	208	61
RP 19	★ Required practical – acceleration		214	213	66
6.5.4.2.1	Newton's 1 st law		212	211	64
6.5.4.2.2	Newton's 2 nd law		212	211	64
6.5.4.2.3	Newton's 3 rd law		213	212	65
6.5.4.3.1	Stopping distance		215	214	67
6.5.4.3.2	Reaction time		217	215	68
6.5.4.3.3	Factors affecting braking distance 1		216	214	69
6.5.4.3.4	Factors affecting braking distance 2		216	214	69
6.5.5.1	Momentum is property of moving objects only HT			216	70
6.5.5.2	Conservation of momentum HT			216	70


	Content	RAG	Revision guide pages		
			COMB F	COMB H	TRIPLE
Waves					
6.6.1.1	Transverse and longitudinal waves		219	218	73
6.6.1.2	Properties of waves		219- 20	218	73
RP 20	★ Required practical – waves		221	219	74
6.6.2.1	Types of electromagnetic waves		223	220	76
6.6.2.2	Properties of electromagnetic waves 1		224-5	221-4	78-80
6.6.2.3	Properties of electromagnetic waves 2		224-5	221-4	78-80
6.6.2.4	Uses and application of electromagnetic waves		224-8	223-6	81
RP 21	★ Required practical – Leslie Cube		226	225	86
Magnetism and electromagnetism					
6.7.1.1	Poles of a magnet		229	227	92
6.7.1.2	Magnetic fields		229	227	92
6.7.2.1	Electromagnetism		230	228	93
6.7.2.2	Fleming's left hand rule HT			230	94
6.7.2.3	Electric motors HT			229	95

Combined Physics Paper 2

	Content	RAG	QR Codes	
Forces				
6.5.1.1	Scalar and vector quantities			
RP 18	★ Required practical – forces and extension			
6.5.1.2	Contact and non-contact forces			
6.5.1.3	Gravity			
6.5.1.4	Resultant forces			
6.5.2	Work done and energy transfer			
6.5.3	Forces and elasticity			
6.5.4.1	Describing motion along a line			
6.5.4.1.1	Distance and displacement			
6.5.4.1.2	Speed			
6.5.4.1.3	Velocity			
6.5.4.1.4	The distance-time relationship			

6.5.4.1.5	Acceleration		
RP 19	★ Required practical – acceleration		 
6.5.4.2.1	Newton's 1 st law		
6.5.4.2.2	Newton's 2 nd law		
6.5.4.2.3	Newton's 3 rd law		
6.5.4.3.1	Stopping distance		
6.5.4.3.2	Reaction time		
6.5.4.3.3	Factors affecting braking distance 1		
6.5.4.3.4	Factors affecting braking distance 2		
6.5.5.1	Momentum is property of moving objects only HT		
6.5.5.2	Conservation of momentum HT		

	Content	RAG	QR Codes
Waves			
6.6.1.1	Transverse and longitudinal waves		 
6.6.1.2	Properties of waves		
RP 20	★ Required practical – waves		 
6.6.2.1	Types of electromagnetic waves		
6.6.2.2	Properties of electromagnetic waves 1		
6.6.2.3	Properties of electromagnetic waves 2		
6.6.2.4	Uses and application of electromagnetic waves		 
RP 21	★ Required practical – Leslie Cube		
Magnetism and electromagnetism			
6.7.1.1	Poles of a magnet		 
6.7.1.2	Magnetic fields		
6.7.2.1	Electromagnetism		 

6.7.2.2	Fleming's left hand rule HT		
6.7.2.3	Electric motors HT		