

GCSE

Science A (4461)

Specification A

PHY1AP, PH1ASF & PH1ASH

Mark Scheme

2008 examination - March series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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GCSE

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity) March 2008

Foundation Tier

Question	Key					
One	A conduction			3		
	В	convection		2		
	C	insulation		4		
	D	radiation		1		
Two	A	electrical energy		3		
	В	thermal energy		4		
	C	light energy				
	D	kinetic energy		2		
		.1 .				
Three	A	acid rain		3		
	В	global warming				
	C	noise pollution				
	D radioactive waste		iste	1		
	_	1		2		
	A			2		
Four	B	natural gas		4 1		
	C	oil				
	D	renewable sources		3		
	A	10		3		
	В	44		4		
Five	C	56		1		
	D	2000		2		
Six	A	house		4		
	В	power station		1		
	C	step-down transformer		3		
	D step-up transformer		2			
	I					
		A	В		C	D
Seven		4	3		3	4
Eight		2	4		4	1
Nine		2	4		3	1

GCSE

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity) March 2008

Higher Tier

Question	Key									
One	A house	4								
	B power station	n 1								
	C step-down tr	ransformer 3								
	D step-up trans	sformer 2								
Two	A cold water is pumped into the rocks 1									
	B steam drives	turbines	3							
	C turbines driv	re generators	4							
	water is heated by radioactive decay 2									
	A	В	C	D						
Three	2	4	4	1						
Four	2	4	3	1						
Five	4	3	3	2						
Six	3	2	4	4						
Seven	4	3	2	4						
Eight	4	2	2	2						
Nine	2	3	2	1						