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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2008 question paper

0654 CO-ORDINATED SCIENCES

0654/05

Paper 5 (Practical), maximum raw mark 45

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



		<u> </u>	IGCSE – October/November 2008 0654	05			
1	(a)	(i)	temperature/amount of water;	[1]			
		(ii)	 A should be tallest and straight; B should be shorter and straight; 				
			C should be curved; (subtract 1 mark for drawings of poor quality)	[3]			
		(iii)) line of table should be filled in yellow, green, green;	[1]			
		(iv)	 values should be as follows: A should be largest number; B should be second; C should be third; 	[3]			
		(v)	magnification = size of image; size of object	[6]			
			substitution of candidates values; answer;	[3]			
	(b) box A, plant grows upwards more quickly/etiolation to reach light (for photosynthetox C, plant bends towards the light/phototropism, to improve light ophotosynthesis);						
	(c)	set up two boxes as in box B ; put a red filter across top of one and a green filter across the other; compare growth after a few days;					
		all c	other conditions identical/one controlled condition named;	[2 max] [Total: 15]			
				[Total: 13]			
2			lue of E correct. Do not allow if clearly not mm ow if values are reversed	[1]			
	(c)	suit	OUR complete sets of readings i.e. for 20 oscillations itable range of masses				
			correct must have at least 3 readings of 20 osc correct to 2 dp	[4]			
	(e)	no i sca	es correct and labelled with units marks for graph if wrong things plotted ale is sensible otting correct				
		•	est straight line for their points and is reasonable st. line	[4]			
	(f)	corr	adient is shown on graph for any reasonable st.line rrectly calculated				
			ine is made up of parts, NO marks for (f) low if area involving the plots is used	[2]			

Mark Scheme

Syllabus

Paper

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Pa	ige 3	Mark Scheme	Syllabus	Paper	
		IGCSE – October/November 2008	0654	05	
(g)	accuracy	calculated for candidate's figures y – between 8 and 10 llow this mark if st.line mark not given		[2]	
(h)	•	conable answer – one mark for each peating more times'		[2]	
				[Total: 15]	
3 (a)	(i) white	e ppt Do not allow 'milky'		[1]	
	pops			[3]	
	it is	rvescence/bubbles OR Mg disappears an acid		[1]	
		tains sulfate w one if sulfuric acid		[2]	
(b)	(b) addition of sodium hydroxide allow Na ₂ CO ₃ or aq NH ₃ red brown ppt				
	iron(III)	<u>PP-</u>		[3]	
(c)	(i) deco	olourised/loses its colour/goes white		[1]	
	(ii) whit	e <u>ppt</u> olves in the acid		[2]	
	(iii) dirty	green ppt		[1]	
(d)	the iron(III) has been changed to iron(II) OR the iron has be	en reduced OR W	TE [1]	
[Total					