

MARK SCHEME for the May/June 2013 series

0653 COMBINED SCIENCE

0653/53

Paper 5 (Practical Test), maximum raw mark 30

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, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

	Syllabus 0653	Mark Scheme IGCSE – May/June 2013	Page 2	I	
Cambrid	Syllabus 0653 Phat	rge, neat pencil drawing ; awing clearly shows petals, stamens, carpel ;		(a)	
[2]	;	amen and carpel correctly labelled ; amen marked as male and carpel marked as femal e			
[2]	/carpel wall, ovule ;	ear pencil drawing of carpel in section ; y two of the following correctly labelled–ovary, ovary	. ,		
[1]		etal drawing in left of Table 1.1 showing colours ;	o) (i)	(1	
[1]	green/yellow/orange/	etal drawing in right of Table 1.1 showing colours plus d / brown ;	• • •		
[1]		educing) sugar/glucose/nectar present ;	(iii)		
[1]	or nectar will attract	sects will visit flower to collect sugar/sugar or glucos sects ;	• •		
otal: 10]	[To				
[1]		value for 60g recorded in the range 25-50 cm ;	a) (i) 2	(i	
[1]		value for 70g recorded <u>to 1 decimal place</u> ;	(ii) 2		
[1]	ing down the table ;	maining values of <i>x</i> recorded and values of <i>x</i> decrea	(iii)		
[1])	x values calculated correctly ; (allow more than 2 d.p	(iv)		
	g and 10g represented	itable choice of scales with vertical axis starting at 60 at least 2 cm ;		(1	
[3]	;	points out of 4 plotted correctly to half a small square bod best fit straight line judgement ;	:		
[2]		dication on graph of how data obtained ; rrect calculation of gradient ;			
[1]	cant figures ;	t calculation of <i>M</i> from candidate's gradient <u>to 2 signi</u>	:) corre	(1	
	[To				

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(a) (i)	time	value for 10 cm ² of A ;	terns.
(ii)	time	value for 8 cm ³ of A ;	www.papaCanibrids
(iii)	com	olete set of time values ;	
		ne values to nearest second (whole number) ; es of time increase down the table ;	[3]
(b) (i)	all 1/	time values correct (2 decimal places or more) ;	[1]
(ii)	scale	e–uniform and numbered for both axes ;	
		ts – 3 points plotted correctly within half a square ;	501
	line -	-best straight line <u>through origin</u> ;	[3]
(c) pro	portio	nal/rate increases as (volume of) A increases ; (ignore conclusion	ons in
	ns of		[1]
			[Total: 10]