

## Wany, Dana Cambridge, com MARK SCHEME for the October/November 2009 question paper

## for the guidance of teachers

## **0653 COMBINED SCIENCE**

0653/05

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 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 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Pag	je 2		Syllabus	
		IGCSE – October/November 2009	0653	20
	good qua chlorophy	ality of drawings ; yll label ;		trapape bacambrid
	leaf <b>A</b> on	d <b>C</b> same shape as in part <b>(a)</b> ; ly one containing starch, correctly labelled ; ignore sm f starch matches chlorophyll pattern in <b>(a)</b> ;	all traces of starch i	in <b>B</b> and <b>C</b> [3]
	light and	arch present) carbon dioxide both needed (for photosynthesis) ; ily found where chlorophyll is ;		
I		synthesis because carbon dioxide is absent ; low if stated that water also absent		
	leaf <b>C</b> no photos	synthesis because light is absent ;		[4]
(e) f	to remove carbon dioxide ; OWTTE			[1]
				[Total: 10]
(a)	recording	g the refractive index ;		[1]
(d)		e drawings ;; ONE mark if only 4		(2)
	Table angles of <b>i</b> are about 60°, 55°, 40°, 30° and 20° and <b>r</b> values ;; ONE mark if only 4 values			(2)
;		f <b>r</b> decrease appropriately ;		(2) (1) [5]
(e)	Graph scale plotti	ing ;		
	suita	ble curve ;		[3]
(f)	correctly	read from graph ;		[1]
				[Total: 10]

Page		Syllabus Syllabus
	IGCSE – October/November 2009	0653
<b>(a)</b> ac	ccept anything between 0.03 and 0.08 ;	ambrid
va va	sults for all three ; alue for <b>B</b> is half <b>A</b> within 2 drops ; alue for <b>C</b> is half <b>B</b> within 2 drops ; alue for <b>C</b> within 2 drops of Supervisors value ;	Syllabus 0653 (4) (4)
	ost concentrated is <b>A</b> ; eeds the largest number of drops ;	[2]
(e) bro	own <u>ppt</u> . ;	[1]
<b>(f)</b> gre	een <u>ppt</u> . ;	[1]
<b>(g)</b> on	ne mark for iron(II) ;	[1]
		[Total: 10]