MARK SCHEME for the October/November 2009 question paper

for the guidance of teachers

0652 PHYSICAL SCIENCE

0652/05

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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – October/November 2009	0652	05
1	(a)	recording	g the refractive index ;		[1]
	(d)		e drawings ; e ONE mark if only 4 ;		[2]
		-	f i are about 60, 55, 40, 30 and 20 and r values ; E mark if only 4 values ;		[2]
		angles o	f r decrease appropriately ;		[1]
	(e)	•	e ; ing ; able curve ;		[3]
	(f)	correctly	read from graph ;		[1]
	(g)		es correct, estimating if necessary ; not from the table provided do not allow ratio correc	tly calculated ;	[2]
	(h)	suitable	comment; looking for some idea of accuracy of exp	periment.	[1]
	(i)		ractive index is greater, then angles of refraction wou er the medium the greater the ray is bent ;	uld be smaller ; or	vice versa [2]
					[Total: 15]

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	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2009	0652	05
2	(a) accept	accept anything between 0.03 and 0.08 ;		[1]
	value fo	for all three ; or B is half A within 2 drops ; or C is half B within 2 drops ; or C within 2 drops of Supervisors value ;		
	if A is la	arger than 20, 2 drops becomes 3 drops		[4]
	• •	oncentrated is A ; he largest no. of drops ;		[2]
	(e) brown <u>r</u>	<u>opt</u> . ;		[1]
	(f) (i) whi	ite <u>ppt</u> . ;		[1]
	(ii) dirt	y white, grey or cloudy (ppt. not necessary here as re	eaction is slow) ;	[1]
	(iii) gre	en <u>ppt</u> . ;		[1]
	(g) one ma	rk for iron(II) and one for sulfate ;		[2]
	• •	rops into a measuring cylinder to suitable volume (at by number of drops ;	least 5 cm ³) ;	[2]
				[Total: 15]

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