

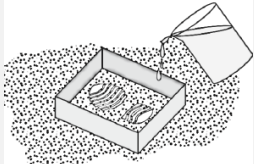
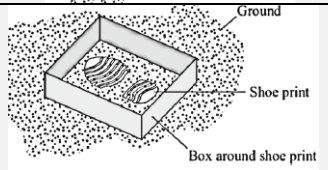
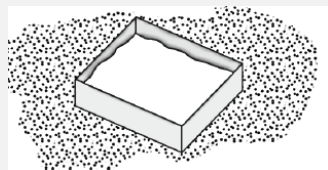
### Assessment Schedule 10B 2011


/ means OR eg. green / blue – answer needs green OR blue

( ) means additional, not really required eg. Gauze (mat) – gauze would be sufficient

: means AND eg. red : hot - answer needs red and hot.

Question	Evidence	Marks	
One(a)(i)	electrons jumper	2-3 correct - 1 mark	
(ii)	positively charged		
(b)	copper : to be a conductor / to conduct electricity / to allow charge to flow/move or inverse implied	1 mark	
(c)	A	1 mark	
(d)(i)	He changes the wire (from copper to steel) as well as the number of turns	1 mark	
(ii)	Number of coils	Mass of iron filings in grams	Or similar 1 mark for a drawn/ruled table with suitable headings 1 mark for correct data transfer
	5	2	
	10	6	
	15	23	
	20	18	
	25	22	
	30	25	
(iii)	As number of turns increases : more/mass of iron filings (picked up) increases	1 mark	
(iv)	23 (15 coils) is circled	1 mark	
Two (a)(i)	6	1 mark	
(ii)	6 + 8 = 14 mm 3.2 N (allow 1 Mark for 0.8N if lines draw across AND down on graph)	1 mark 1 mark	
(b)(i)	A = weight/Gravity B = friction/resistance/drag (NOT air resistance)	2-3 correct = 1 mark	
(ii)	Force B must become equal to force F.		
(c)(i)	1.6 N	1 mark	
(ii)	Tennis shoe / trainer Has enough friction so player doesn't slip/fall or player has more grip or can change direction easily	1 mark 1 mark	

Three (a)(i)	x-axis labelled as distance of seeds from plants (cm) : y-axis labelled as number of seeds 3 bars correctly drawn	1 mark 1 mark	
(ii)	45	1 mark	
(iii)	<input checked="" type="checkbox"/> When the wind blows from the south-east, the smallest number of seeds is found in the south-east section : <input checked="" type="checkbox"/> When there is no wind, the seeds are found in equal numbers in each section.	1 mark	
(iv)	Answer including idea of avoiding competition for a named factor e.g. water / light / nutrients / space BUT NOT "food"	1 mark	
(b)	Effect of leaf type / shape / species : on water loss : in windy conditions	1 mark	
(c)	X = carbon dioxide Y = wáter – need both correct	1 mark	
Four (a)(i)	(At less that 2) people can't tell it is an earthquake	1 mark	
(ii)	7	1 mark	
(b)(i)	Any one of matching shape / similar rocks / rocks with similar fossils	1 mark	
(ii)	B	1 mark	
Five (a)	Any TWO precautions visible in photo e.g. tape, overalls, masks, heads covered, gloves	1 mark	
(b) (i)	Loop B : Whorl C (both correct)	1 mark	
(ii)	D A C B	1 mark	
(c)	Black dye contains E102 and E142 (NOT 'black dye is similar [or common] to E102/E142' OR 'black dye is IN E102/E142' OR 'E102/E142 had a dye from the black dye')	1 mark 1 mark	
	It also contains one unidentified/other dye/ contains 3 dyes		
(d)		3	Pour plaster over print
		1 / 2	Box off print / place card around print
		4	The plaster of Paris is left until it has set hard. It can then be removed from the mould and measured or photographed.
			Correct order = 1 mark 2-3 correct descriptions = 1 mark

		1 / 2	Mix up plaster of Paris <b><u>and water</u></b>	
Six (a)	(i) red (ii) 8-11 (any number in this range or within this range) (iii) strongest (iv) green			3-4 correct = 1 mark
(b)	Crush / shred / cut up Add (a named solvent) water / alcohol / meths etc. Heat / stir / stir & heat Filter / strain / decant / pour off : to get coloured solution / dye / indicator			1-2 key steps – 1 mark, 3-4 steps - 2 marks
(c)	A and E			1 mark
(d)(i)	Magnesium, zinc, lead			1 mark
(ii)	Trap / collect gas : Lit splint / hold in flame (Gas burns/ignites with) a squeaky pop <b>BUT NOT</b> “do the pop test”			1 mark 1 mark