

## Assessment Schedule 9C 2006

/ 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)	12 : mL (not mls but accepted ml)	1 mark	
(b)	44 mL correctly drawn – either straight line or to <u>bottom</u> of meniscus		
(c)	It is more accurate <u>because</u> scale is bigger (1 mL not 2mL) / divisions are bigger / there is a 21 “mark” on that cylinder/don’t need to estimate / tube is narrower	1 mark	
(d)	Any 2 of: reference to <u>bottom</u> of meniscus / looking at eye level / being held horizontal or on bench / reference to drops on walls / filling to 20 and then slowly drop by drop (with a dropper/pipette)	1 mark	
Two (a)	2 x 6 or 6 x 2 table “ruled” (ie a table and not just a list) Appropriate column headings eg length of wings (cm) * time to reach ground (s)* (or allow units in table)	1 mark	
(b)	Results sequenced in either ascending or descending wing length	1 mark	
(c)	As the wing length increases from 5 – 9 cm the time to reach the ground increases but from 9-13 cm it decreases OR as wing length increases from 5-9 cm they fall slower but from 9-13 cm they fall faster (NOT just goes up then down OR states “it was slowest at...”	1 mark	
Three (a)	Electron Neutron Proton	4/5 correct – 2 marks 2/3 correct - 1 mark	
(b)	4		
(c)	8		
(d)	Sodium chloride CO MgO H <sub>2</sub> SO <sub>4</sub> : each incorrect negates a correct answer	Any 3 correct – 1 mark	
(e)	CaCl <sub>2</sub> = 3 CuSO <sub>4</sub> = 6	1 mark	
Four (a)	1 petal 2 stalk/stem	3 stigma 4 anther 5 sepal	4/5 correct – 1 mark
(b)	Seed is named: eg dandelion (no mark) Seed dispersal is correctly described LINKING a property of seed to its dispersal eg dandelion seed is light and has a parachute and so floats on the breeze. Diagram not required but might help explain dispersal.		1 mark
(c)	Fair test experiment described with control of at least 2 variables eg type of seed, amount of water.		1 mark
	Independent variable is light/no light.		1 mark
	Would expect them to NOT to need light / germinate with and without light (-1 mark if experiment suitable described EXCEPT seeds planted <u>in soil</u> (both would be dark then – & the student probably confusing germination with growth).		1 mark

Five (a)	Made a new substance / made new substances with different properties / would be difficult to reverse	1 mark		
(b)	Magnesium + oxygen → magnesium oxide	1 mark		
(c)	$4.2 \times 20 \times 30 = 2520$	1 mark		
Six (a)	C to the body D From the Lungs E From the body	All correct 1 mark		
(b)	It has to pump blood all around the body / to extremities of body (and back to the heart)	1 mark		
(c)	56	1 mark		
(d)	93 – 97 (inclusive)			
(e)	Student 1 correctly identified: Any 2 of: Lower resting pulse / lower max. pulse at 8 minutes / quicker recovery time	1 mark		
(f)	Breathing rate <u>increased</u> : volume of each breath <u>increased</u> (Actual values if quoted must be correct)	1 mark		
(g)	$840^* \times 18$ (*Allow 838-842)	1 mark		
Seven (a)	A difference is stated and related to diet e.g. sheep has rigged molars for grinding tough plant material but the human has flatter less specialized ones as we eat softer food. Or sheep has no teeth at front on top jaw using bottom teeth like knife on a chopping board but human or no canines in sheep etc etc....	1 mark		
(b)	Larger : on side of head : to watch out for predators/things that want to eat it	1 mark		
(c)	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 1. crown 2. root </td> <td style="width: 50%; vertical-align: top;"> 3. enamel 4. dentine 5. pulp cavity 6. gum 7. blood vessels &amp; nerves 8. bone </td> </tr> </table>	1. crown 2. root	3. enamel 4. dentine 5. pulp cavity 6. gum 7. blood vessels & nerves 8. bone	6-8 correct 2 marks 3-5 correct 1 mark
1. crown 2. root	3. enamel 4. dentine 5. pulp cavity 6. gum 7. blood vessels & nerves 8. bone			
Eight (a)	4	2/3 correct – 1 mark		
(b)	7			
(c)	6			
(d)	(i) Nor westerly / North Westerly (ii) strong (iii) isobars are close together	2 correct - 1 mark; all correct – 2 marks		
Nine (a)	Ray is bent and dispersed and bent : ROYGBIV with red at the top	1 mark		
(b)	Green object absorbs all colours except green which it reflects	1 mark		
(c)	Real : smaller : inverted	2/3 correct – 1 mark		
(d)	Rays drawn converging on a point (focal point) : arrows on lines	1 mark		

Ten (a)	Any 3 causes of erosion: Eg Trees are being cut down on hills / stock are allowed to graze on river banks / rabbits burrow and eat grass / etc		1 mark
(b)	In favour of	Opposed to	1 mark for each reasoned point – maximum of 3 marks
	Because the soil will be irrigated it won't dry out and so winds won't make the soil blow around, so it won't be dusty.	When the soil is bare with no plants in it, it will be very vulnerable to winds, and will blow around, making a lot of dust and causing erosion	
	Scenic – looks nice	Flowers have shallower roots than other plants and trees and so won't bind the soil particles together as well	
	etc	etc	
	PJ: well organised, spelt & punctuated (Only if at least 2 full "sentences" involved in explanation)		1 mark