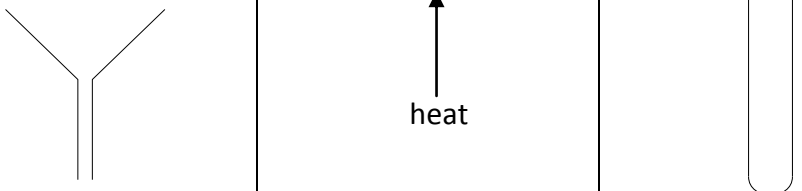



Assessment Schedule 9B 2011

/ 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)	Easier to see / instant warning / don't need to know language (or equivalent answer); accept 'understand'	1 mark
(b) (i) (ii)	B Toxic / poisonous	Both correct - 1 mark
(c)		All 3 correct - 1 mark
(d) (i)	Centre of flame not burning / flame has a region of unburnt gas	1 mark
(ii)	Air-hole open / roaring flame : is hottest flame	1 mark
Two (a)	To stain/dye : parts/features of the cells. Don't accept ' To see clearly / show...'	1 mark
(b)	Air bubbles : lower the coverslip down gently (with tweezers) Must mention 'Air' bubbles	1 mark
(c)	A = chloroplast, B = cell wall, C = vacuole, D = cytoplasm	3-4 correct = 1 mark
(d)	Any one of: large (central) vacuole / cell wall / chloroplasts / regular shape. Not size	1 mark
Three (a)	seaweed → chiton → crab → seagull OR seaweed → chiton → rock cod → sea anemone OR seaweed → chiton → shrimp → sea anemone	1 mark
(b)	(i) consumer (ii) prey (iii) seaweed	2-3 correct = 1 mark
(c)	increase : more chitons (as rock cod aren't eating them) so more crabs to eat (or any suitably argued result & reason)	1 mark
Four (a)	30(%) : $33 + 27 + 10 = 70$, $100 - 70 = 30$ (some working to be shown)	1 mark

(b)	Hydroelectric power, solar and wind are ticked	All correct = 1 mark	
(c) (i)	Kinetic (energy in the wind) Electrical (output energy from the turbine)	1 mark	
(ii)	It is not always windy / sometimes too windy and they have to be shut down / expensive to set up BUT NOT noisy / ugly (as Q. asked for main disadvantage.)	1 mark	
Five (a)	solute	1 mark	
(b)	A	1 mark	
Six (a)	(There is a lot of empty) space between the particles /particles are far apart (or equivalent idea)	1 mark	
(b)	Move faster : move further apart BUT NOT “particles get bigger/expand” Answer must refer to the particles and NOT to any possible effect on can e.g. can explodes *	Both correct = 1 mark	
(c)	Whole can is shaded / a few particles are randomly distributed <u>throughout</u> the can. NOT accepting shading at bottom + particles	1 mark	
Seven (a)	(i) evaporation (ii) chromatography (iii) magnetism	2-3 correct : 1 mark	
(b)	<ul style="list-style-type: none"> Water evaporates (and steam/water vapour passes down condenser) (Cold water flowing around condenser) water vapour/steam condenses/ steam turns (back) to water (in the condenser) (Components in) ink does not evaporate / ink stays in the flask 	3 marks	
Eight (a)	(i) Dotted line is labeled as “normal” (ii) Reflected ray looks like 50° : has > on ray to show direction	1 mark 1 mark	
(b)	Ray is continued STRAIGHT in diagram 2 and clearly shows that it <u>would not</u> go through the hole in card B. (Do NOT penalise for lack of > on ray) It is unable to reach the screen as light travels in straight lines / light does not bend	1 mark 1 mark	
Nine (a)	(i) C (ii) B (iii) D	2-3 correct = 1 mark	
(b)	E F G	All 3 correct = 1 mark	
(c) (d)	A = neutron, B = proton, C = electron 14	3-4 correct = 1 mark	
(e)	Element (added to iron)	Use	Titles - 1 mark Content – 1 mark
	chromium	Cooking pots	
	manganese	Railway tracks	
	titanium	Aircraft parts	
	tungsten	Tools / hammers	

Ten (a)	<ul style="list-style-type: none"> • Heat from the sun evaporates the water • Cold (atmosphere) makes water condense as clouds • Wind blows the clouds • Water droplets collect together (clouds get heavy with water) and fall as rain • Rain falls on land : runs into rivers • Rivers flow into the sea • Whole process repeats / is a cycle <p>Students may use technical terms like precipitation and run-off</p>	<p>Each 2 key ideas = 1 mark;</p> <p>max of 3 marks</p>
(b)	<p>(i) H</p> <p>(ii) 1016 (left one) 1012 (right one)</p> <p>(iii) labels  as cold front</p>	<p>2 correct = 1 mark</p> <p>3-4 correct = 2 marks</p>
(c)	parallel : clockwise	Both correct – 1 mark
		40 marks