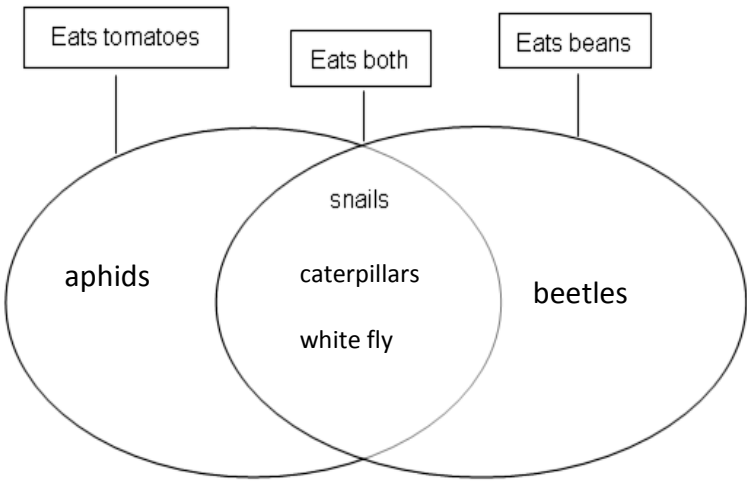


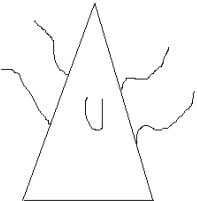
## Assessment Schedule 9C 2009

Question	Evidence	Marks																
One	(a) <div style="text-align: center; margin-top: 10px;"> </div>	1 mark  <b>4 or more correct</b>																
	(b) it boils / evaporates / turns to steam / changes from liquid to gas/water vapour	1 mark																
	(c) steam / water vapour : condenses OR a colourless liquid collects Note: NOT “water condenses”, “evaporation condenses”, or wrong use of condenses / condensing eg “condensates”	1 mark																
	(d) steam escaping from the delivery tube / test tube ie something that will be SEEN	1 mark																
	(e) more : more steam would condense to water / less steam would escape Accept PJ “less : because it condenses and stays in the tube”	1 mark																
	(f) white crystals / salt (not sand)	1 mark																
Two	(a) the <u>place/</u> where an <u>organism/</u> living thing <u>lives</u> (must state or imply living things and not just “things”)	1 mark																
	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">(b) Quadrat</th> <th style="padding: 5px;">Grass plants</th> <th style="padding: 5px;">Daisy plants</th> <th style="padding: 5px;">Dandelion plants</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">1</td> <td style="text-align: center; padding: 5px;">56-58</td> <td style="text-align: center; padding: 5px;">5</td> <td style="text-align: center; padding: 5px;">1</td> </tr> <tr> <td style="text-align: center; padding: 5px;">2</td> <td style="text-align: center; padding: 5px;">55-57</td> <td style="text-align: center; padding: 5px;">4</td> <td style="text-align: center; padding: 5px;">2</td> </tr> <tr> <td style="text-align: center; padding: 5px;">total</td> <td style="text-align: center; padding: 5px;">111-115</td> <td style="text-align: center; padding: 5px;">9</td> <td style="text-align: center; padding: 5px;">3</td> </tr> </tbody> </table>	(b) Quadrat	Grass plants	Daisy plants	Dandelion plants	1	56-58	5	1	2	55-57	4	2	total	111-115	9	3	1 mark  <b>6 or more correct</b>
	(b) Quadrat	Grass plants	Daisy plants	Dandelion plants														
	1	56-58	5	1														
	2	55-57	4	2														
total	111-115	9	3															
(c) $9 \times 10 = 90 / 90$	1 mark																	
(a) solvent (b) solute	1 mark <b>Both required</b>																	
(c) solution	1 mark																	

<p>Four</p>	<p>(a) <u>USED</u>: Chemical Potential  <u>PRODUCES</u>: Gravitational Potential, Kinetic, Heat, Sound</p> <p>2 correct** = 1 Mark  3 - 4 = 2 Marks  **NB Must have the word POTENTIAL at least once, ie either chemical potential OR gravitational potential</p> <p>(Must have at least one in both USED and PRODUCES columns)  If a number of incorrect energies are in “used” it may negate or limit to 1 mark.</p>	<p>2 marks</p>

Six	(a)			1 mark
				3 or more correct
	(b)	loud sound	low pitched-sound / quiet sound	high pitched sound
	(c)			1 mark
	<p>Amplitude must be less /frequency doubled</p>			
Seven	(a)			2 marks
	<p><b>Element:</b> 1, 5  <b>Mixture of Elements:</b> 4, 8  <b>Compound:</b> 3, 6, 7  <b>Mixture of Elements and Compounds:</b> 2  <b>Mixture of Compounds:</b> NA</p> <p>3 to 5 correct = 1 mark  6 to 8 correct = 2 marks  (any double ups of numbers negates that answer)</p>			
	(b) <b>One of:</b> sulfur/copper/hydrogen/oxygen/nitrogen/carbon (also accepting sodium and chlorine as they were “featured elements”)			1 mark
	(c) <b>One of:</b> sodium chloride/water/carbon dioxide/copper sulfide NB ** Must be written as names (ignore formulae)			1 mark
Eight	(a) What eats what / is eaten by/ the flow of energy			1 mark
	(b) (i) <b>Example</b> of Predator (e.g. wasp/spider/bird/aphid ) <b>AND</b> eats other animals (ii) <b>Example</b> of Secondary Consumer (e.g. bird/wasp/spider ) <b>AND</b> is an organism that eats other consumers/eats Primary Consumer			1 mark

	<p>(c)</p>  <p>4 correct = 1 Mark</p>				1 mark
	<p>(d) <b>One of the following:</b></p> <ul style="list-style-type: none"> <li>- Spider <b>population</b> will <b>DECREASE</b> because of less food</li> <li>- Bird <b>population</b> will <b>DECREASE</b> because of less food</li> <li>- Wasp <b>population</b> will <b>DECREASE</b> because of less food</li> <li>- Wasp <b>population</b> will <b>INCREASE</b> because of a reduction in the number of predators</li> </ul>				1 mark
	<p>(e) Beetle <b>BECAUSE</b> beans are its sole/only food source</p>				1 mark
Nine	Brush	Initial reading of mass of paint (g)	New/final reading of mass of paint (g)	Mass of paint picked up (g)	1 mark
	1				
	2				
	3				
	4				
	<p>Table includes brush type AND mass of paint picked up (g) – accept weight if unit of g – do NOT accept amount of paint unless unit of g given</p> <p>OR</p> <p>Table includes brush type AND initial mass of paint (g) AND new/final mass of paint – accept weight if unit of g – do NOT accept amount of paint unless unit of g given</p>				
	<p>Table includes brush type AND initial mass of paint (g) AND new/final mass of paint AND mass of paint picked up (g) – accept weight if unit of g – do NOT accept amount of paint unless unit of g given</p>				2 marks
	<p>(b) New/final reading of paint minus the initial reading of the mass of paint</p>				1 mark
	<p>The difference between the initial reading of the mass of paint and the new/final reading after the brush has been dipped, is the mass of paint picked up by the brush</p>				2 marks

Ten	(a) Group 1: <b>Have Cilia:</b> C E F G M Group 2: <b>No Cilia:</b> A B D H I J K L	1 mark
	(b) <b>One of:</b>  <b>Straight Sides:</b> A C E F G H J K L M <b>Not Straight Sides:</b> B D I <b>Spots:</b> B I <b>No Spots:</b> A C D E F G H J K L M <b>Eyes:</b> B D F G I K L <b>No Eyes:</b> A C E H J M <b>Mouth/Nose:</b> A C E J <b>No Mouth/No Nose:</b> B D F G H I K L M <b>Flagellum:</b> A H J K L <b>No Flagellum:</b> B C D E F G I M	1 mark
	(c) <b>T. biciliatus</b> <b>T. ventrodotteus</b> <b>T. roundinoseum</b>	1 mark
	(d)  	1 mark
	(b) (i) 10 & 11  (ii) <b>Extra Step:</b> must be paired statement equivalent to:  Entire body has dot pattern <b>Half</b> body has dot pattern  (iii) Use your judgment but must imply a lot of spots / spots all over eg T. meggadottyashellospotyalloverusum  NB ** Must have all three to earn mark	1 mark
	Total	40 marks