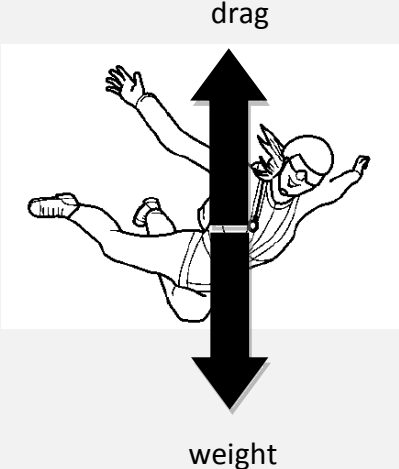



Assessment Schedule 10C 2011

/ 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)	Plants will grow faster.... Prediction : The short bushes grow ...an observation	1 mark
(b)	D	1 mark
(c)	A	1 mark
Two (a)	All points plotted correctly : Points joined with smooth curve : Line labeled Flask B / key (given grades where possible... not for points incorrectly plotted)	2 correct – 1 mark, 3 correct – 2 marks
(b)	63 – 57 : 6°C	1 mark
(c)	Any TWO suitably controlled variables e.g. same size flask, same shape flask, same volume of water, same starting water temperature, same thickness cotton wool – 1 mark each, max of 2 marks	2 marks
Three (a)	B – glass fragments, D – pollen, A - DNA	1 mark
(b)	No : (although) there is a match with X... must be linked ... correct reason why not e.g. X may be a common fibre/carpet found in many places where the suspect has been.	1 mark 1 mark
Four (a)	on off on on off off	1 mark
(b)	A – repelled attracted magnet B – attracted attracted iron C – no effect no effect aluminium. (allowed one error in the table)	1 mark
(c)	answer is in terms of which attracts or repels the suspended magnet more describes how the results would indicate the stronger magnet (i.e. attracts / repels over a <u>greater distance</u>)	1 mark 1 mark
Five (a)	Heat sugar with Benedicts solution which turns from blue to a red-orange (precipitate / solid)	1 mark
(i)	Water / water vapour present It went cloudy- milky	1 mark
(ii)	No flames (or other suitable answer)	1 mark
(b)	Baking soda	1 mark

Six (a)	It (the rate) only increases it up to a point & does not increase any more / it (the rate) does not increase after 25 (units)	1 mark
(b)	Any 2 ways e.g. produce oxygen / plants grow for food / plants grow for wood etc	1 mark
Seven (a)	<p>Arrows equal sizes – much come from / touch sky diver Both correctly labelled</p> 	1 mark
(b)	Weight : drag increases as she falls faster / there isn't much drag at first as she isn't moving / accelerating very much – or equivalent correct idea\	1 mark
(c) (i)	C	} Both needed for 1 mark
(ii)	Her speed rapidly drops / decreases after C	
(iii)	15 /16 seconds : 35 – 20 / 35 - 19	1 mark
Eight (a)	<p>Any ONE correct simple conclusion e.g. Surestop XP tyres are better at stopping / stop in less distance = 1 mark BUT A good conclusion e.g. Surestop XP stops in a shorter distance than Maxgrip XT at all depths of tread = 2 marks OR TWO simple conclusions = 2 marks not accepting answers that refer to “time to stop” or “stop quickly”. All conclusions must have been made by referring to the data on the graph.</p>	Max of 2 marks
(b)	10 m : 73 – 63 (allowed a correct answer with units without working)	1 mark
(c)(i)	5.3	1 mark
(c)(ii)	40	1 mark
Nine (a)(i)	Shatter / break up / crack (or similar idea) (not accepting “volume increases” or “expands”)	1 mark
(ii)	No change to rock / wouldn't shatter : because granite is not porous / water can't soak into granite (explanation is required)	1 mark

(b)	Granite will not react with acid rain / pollution / polluted air	1 mark												
(c) (i) (ii)	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 33%;">name of rock</th> <th style="width: 33%;">group of rocks</th> <th style="width: 33%;">way the group of rocks was formed</th> </tr> </thead> <tbody> <tr> <td>granite</td> <td>sedimentary</td> <td>the effect of high temperature and pressure on limestone</td> </tr> <tr> <td>marble</td> <td>igneous</td> <td>formed when magma cools</td> </tr> <tr> <td>sandstone</td> <td>metamorphic</td> <td>particles are deposited in layers</td> </tr> </tbody> </table>	name of rock	group of rocks	way the group of rocks was formed	granite	sedimentary	the effect of high temperature and pressure on limestone	marble	igneous	formed when magma cools	sandstone	metamorphic	particles are deposited in layers	<p>Correct group = 1 mark</p> <p>Correct formation = 1 mark</p> <p>OR any 4 correct lines = 1 mark</p>
name of rock	group of rocks	way the group of rocks was formed												
granite	sedimentary	the effect of high temperature and pressure on limestone												
marble	igneous	formed when magma cools												
sandstone	metamorphic	particles are deposited in layers												
Ten (a)	The epicentre is the point on the Earth's surface that is directly above the focus, <u>and</u> the point where an earthquake originates. (both needed).	1 mark												
(b)(i)	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;">18</td> <td style="width: 33%;">150</td> </tr> <tr> <td></td> <td></td> <td>175</td> </tr> <tr> <td>11:24:27</td> <td>35</td> <td></td> </tr> </table>		18	150			175	11:24:27	35		<p>3 correct = 1 mark.</p> <p>4-5 correct = 2 marks</p>			
	18	150												
		175												
11:24:27	35													
(ii)	Describes method using compass set to distances using the scale and drawing arcs <u>from each location</u> and seeing where they <u>overlap</u>	1 mark												
(iii)	 <p>is chosen</p>	1 mark												
		40 marks												