

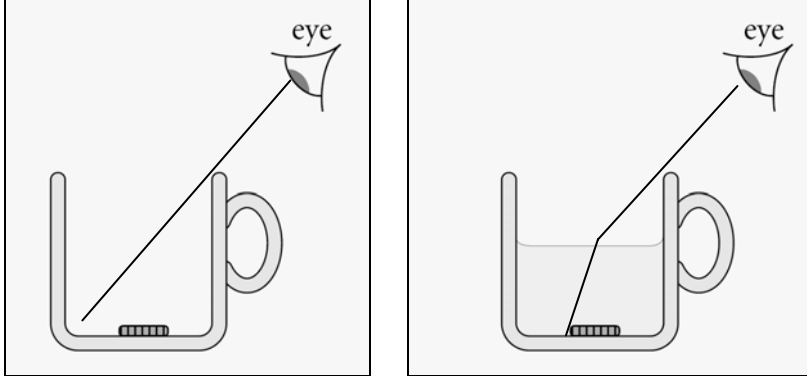
Assessment Schedule 9C 2007

/ 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 | | | |
|----------|--|--------------------------|---|---------|-----------------------------|
| 1(a) | Any 2 of: bright/coloured petals / scent / smell / nectar / nectary Also accepted <i>pollen as food</i> But NOT “pretty” flowers | 2 marks | | | |
| (b) | To avoid competition for: space / light / nutrients (but NOT food) <i>or an exceptionally good answer about ensuring genetic diversity!</i> But NOT “so they don’t get crowded/ over crowded” | 1 mark | | | |
| (c) | spread | Special feature | Whats good | 2 marks | |
| | Dandelion | Wind | Light seed / parachute to help it float | | Flys far from parent |
| | Miro-berry | Eaten by bird/animal | Bright coloured / tasty | | Deposited in faeces / waste |
| | Goose grass | Sticking to fur/feathers | Hooks/spikes catch on | | Falls off far from parent |
| | 1 mark: correct mechanism of dispersal (spread column 3/3) 1 mark: 4 good answers in remaining 6 boxes | | | | |
| 2(a) | (i) water (ii) copper sulfate (iii) dissolves (iv) saturated solution / copper sulfate solution (BUT not just “solution”) 1 mark: 2-3 correct 2 marks: all correct | 2 marks | | | |
| (b) | D A C B E 1 mark: 4-5 correct | 1 mark | | | |
| 3 | 1 mark: a ruled table headed up name/chemical/substance : colour 2 marks: a table that organizes the data in terms of copper & lead compounds OR in terms of colours OR in terms of oxides, sulfides and carbonates | 2 marks | | | |
| 4 (a) | (i) mirror/ unpainted wooden door/ white painted wall (ii) kitchen window (iii) frosted glass window (iv) mirror (v) unpainted wooden door 1 mark: 3 correct <u>lines</u> . Each incorrect answer negates a correct one eg (ii) mirror kitchen window | 1 mark | | | |
| (b)(i) | red | 1 mark | | | |
| (b)(ii) | Green light only because the only light (of the spectrum) that can pass through a green filter is green. | 1 mark | | | |

| Question | Evidence | Marks |
|----------|--|---------|
| (c) |  <p data-bbox="288 562 1267 658">1 mark : One correct diagram OR an attempt to show refraction in (ii) – arrows not needed on rays. 2 marks: Two correct diagrams including arrows on rays (towards eye!)</p> | 2 marks |
| 5(a) | <p data-bbox="288 730 826 763">E D M B H I N P O Q</p> <p data-bbox="288 804 1190 837">1 mark: 4 – 7 correct answers 2 marks 8 – 10 correct answers</p> | 2 marks |
| (b)(i) | The pulse rate increases after exercise (or equivalent statement) | 1 mark |
| (b)(ii) | Jo : there was the biggest difference between pulse before and after exercise / pulse increased by 43 (42 – 44) beats per minute | 1 mark |
| (b)(iii) | Any valid answer that shows understanding on increased demand of muscles for food and/or oxygen / need to remove waste products faster | 1 mark |
| (c)(i) | The longer the exercise (time), the longer the recovery time | 1 mark |
| (c)(ii) | <p data-bbox="288 1207 1267 1312">1 mark: vary basic experiment comparing a boy or a girl / groups of boys and girls – but lacks idea of averaging results or controlling any relevant variables</p> <p data-bbox="288 1317 1283 1458">2 marks: Fair test experiment described where the <i>average</i> recovery time of <i>group</i> of boys is compared to recovery time for a group of girls – includes ONE of exercise for same time/same age individuals/same type of exercise etc Exact details not needed.</p> | 2 marks |
| 6(a) | 2 9 2 10 1 mark: 3 - 4 correct | 1 mark |
| (b) | Electron arrangement of 2,7 drawn | 1 mark |
| (c)(i) | 5 1 2 6 3 1 mark: 3 - 4 correct | 1 mark |
| (c)(ii) | Carbon dioxide : CO ₂ (no follow on allowed) | 1 mark |
| 7(a) | To simulate the conditions of (walking on) a dark night | 1 mark |
| (b) | Same: size/dimensions / material (ie all dull or all shiny) / other acceptable answer | 1 mark |
| (c) | Orange : it was seen (clearly) from furthest away | 1 mark |

| Question | Evidence | Marks |
|----------|--|----------|
| 8(a) | 1. lens 2. cornea 3. iris 4. vitreous humor 5. retina 6. optic nerve 1 mark: 3 – 4 correct answers 2 marks: 5 – 6 correct answers | 2 marks |
| (b) | 2.4 : mm | 1 mark |
| (c) | Answer describes need for more light to enter eye in dim conditions to see (or vice versa) / pupil gets smaller in bright light to avoid damage (to retina) | 1 mark |
| 9(a) | B A E C D | 1 mark |
| (b) | (i) precipitation (ii) evaporation (iii) run-off 1 mark: 2 – 3 correct | 1 mark |
| (c)(i) | CFC compounds upper ultraviolet 1 mark : all correct | 1 mark |
| (c)(ii) | Skin cancer / melanoma / sun burn | 1 mark |
| 10 | <p style="text-align: center;"> <pre> graph TD Root[] --- Yes1[Yes] Root --- No1[No] Yes1 --- ANNIE[ANNIE] No1 --- Has2Eyes[Has 2 eyes] Has2Eyes --- Yes2[Yes] Has2Eyes --- No2[No] Yes2 --- Gazas[Gazas] No2 --- Katy[Katy] </pre> </p> <p>1 mark :</p> <p>1 mark : Completes right hand side of key appropriately using readily identifiable features to identify Susie, Emmie <u>and</u> Rosalie</p> | 2 marks |
| Total | | 40 marks |