



*Rewarding Learning*

**General Certificate of Secondary Education  
2011–2012**

---

**Science: Single Award (Modular)**

Staying Alive  
Module 1  
Foundation Tier

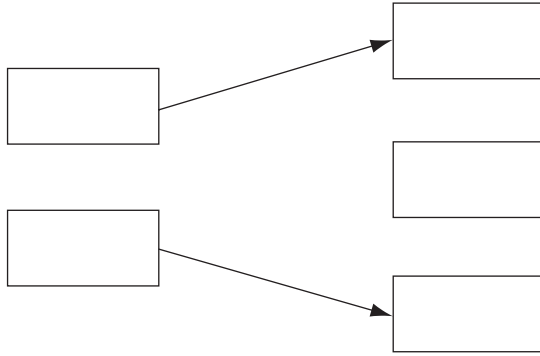
[GSC11]

**MONDAY 27 FEBRUARY 2012  
9.30 am–10.15 am**

---

**MARK  
SCHEME**

1 (a) (i)



[2]

(ii) sunlight

[1]

(b) (i)  $\frac{1}{2}$  mark each bar round down

[2]

(ii) cream cheese

[1]

(c) cottage cheese, most iron/iron prevents anaemia

[2]

8

2 (a) Stacey, all leaves have starch

[2]

(b) chlorophyll, light, top

[3]

(c) 1 – photosynthesis, 2 – feeding

[2]

7

3 (a) (i) respiration

[1]

(ii) water

[1]

(iii) less blood flow, [1]/ease of blood flow  
less food/oxygen/energy [any 1]

[2]

(b) (i)

Changes	Diet	Lifestyle
exercise regularly		✓
less stress		✓
less salt	✓	
less saturated fat	✓	

[2]

(ii) free facilities/more PE in school/any valid

[1]

7

AVAILABLE  
MARKS

			AVAILABLE MARKS	
4	(a) (i)	A – protein, B – sugars	[2]	
	(ii)	avoid over eating, make healthy choices, has named disease e.g. diabetes	[1]	
	(b) (i)	blood, pancreas, glycogen	[3]	7
	(ii)	diabetes	[1]	
5	(a)	1 wrong reading answer sequential 100 – 70 = 30	[2]	4
	(b)	more energy/respiration needed, more oxygen/food needed, oxygen debt.	[2]	
6	(a)	number of people tested, any info to ensure representative of whole population e.g. ages, who conducted the tests	[3]	6
	(b)	ascending line labelled CCEA, 1 label 2 marks steady/descending line labelled TASTY no labels 1 mark allow slight increase than decrease (or TASTY)	[2]	
	(c)	lubricant/solvent/transport	[1]	
7	(a)	1. overall numbers reduced, [1] 2. reduction very small/no reduction last year [2]	[3]	6
	(b)	compare figures; secondary sources – medical/internet; pro rata survey	[3]	
<b>Total</b>				<b>45</b>