

Mark allocation for the graph

Criterion	Elaboration	Mark
Type of graph	Line graph drawn	1
Caption	Includes both variables: 'Percentage mortality of mosquitoes' and 'Time'	1
X-axis	Appropriate scale AND Correct label and units for X-axis: Time (months)	1
Y-axis	Appropriate scale AND Correct label and units for Y-axis: Mortality of mosquitoes (%)	1
Plotting of points	1–8 points plotted correctly – 1 mark All 9 points plotted correctly – 2 marks	2

(6)

- 3.1.4
- Same species of mosquito✓
 - Identical laboratory conditions for the full period of the investigation✓
 - The same scientist must be used for the full period of the investigation✓
 - Mosquitos should not be hurt for the full period of the investigation✓
- (Mark first TWO only)** (any 2) (2)
- 3.1.5
- Use a larger sample of mosquitoes✓
 - Repeat the investigation✓
 - Take many samples each time and calculate the average mortality✓
- (Mark first TWO only)** (any 2) (2)
- 3.1.6
- More mosquitoes are produced than can survive.✓
 - There is genetic variation✓ amongst the mosquitoes.
 - Some mosquitoes may be naturally resistant to DDT.✓
 - When DDT is applied✓
 - those that are resistant survive✓
 - and they then reproduce.✓
 - passing the allele for resistance to the offspring.✓
 - Those that are not resistant, die✓
 - and their alleles are lost from the population.✓
 - The number of DDT-resistant mosquitoes therefore increases over the generations✓.
- (any 8) (8)
- 3.2
- 3.2.1
- The oldest fossils of human ancestors✓ were only found in Africa✓ (2)
- 3.2.2
- Mitochondrial DNA is passed down from mother to child✓
 - mutations✓ on the mitochondrial DNA
 - were traced to an ancestral female that existed in Africa✓
- (3)
- (5)

Grade 11 P2 Life Science Exemplar 2014

J. Grogan



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Life Sciences J. Grogan, 2017

Enjoying the Song of Expression: An Emotional Symphony within **Grade 11 P2 Life Science Exemplar 2014**

In a world used by monitors and the ceaseless chatter of instant transmission, the melodic beauty and mental symphony developed by the prepared term usually diminish into the back ground, eclipsed by the persistent sound and disturbances that permeate our lives. But, located within the pages of **Grade 11 P2 Life Science Exemplar 2014** a stunning fictional treasure filled with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this interesting masterpiece conducts viewers on a mental trip, well unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths of this touching review, we shall explore the book is main harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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