

For Supervisor's use only

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90462



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



National Certificate of Educational Achievement
TAUMATA MĀTAURANGA Ā-MOTU KUA TAEA

Level 2 Biology, 2003

90462 Describe diversity in the structure and function of animals

Credits: Three
2.00 pm Monday 17 November 2003

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should answer ALL the questions in this booklet.

If you need more space for any answer, use the pages provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–8 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Achievement Criteria			For Assessor's use only		
Achievement	Achievement with Merit	Achievement with Excellence			
Describe diversity in the structure and function of animals.	<input type="checkbox"/>	Explain diversity in the structure and function of animals.	<input type="checkbox"/>	Discuss diversity in the structure and function of animals.	<input type="checkbox"/>
Overall Level of Performance					<input type="checkbox"/>

You are advised to spend 35 minutes completing the task in this booklet.

An animal's way of life places particular requirements and restrictions on the structure and functioning of the adaptations used to carry out the life processes. Different animals and animal groups have developed diverse adaptations in relation to differences in their way of life.

This activity requires you to consider the diversity of adaptations shown by animals for one life process and to discuss how and why this diversity is related to the animals' way of life.

You are required to select ONE of the following life processes for this activity:

- transport
- gas exchange
- nutrition
- excretion

and consider the diversity of adaptations in THREE different animals or animal groups.

(a) Circle ONE life process that you will use for this activity:

transport gas exchange nutrition excretion

(b) Clearly identify THREE different animals or animal groups that **show diversity** in their adaptations in relation to their way of life and to the system selected in (a) above. Write the names of the three animals or animal groups in the boxes below.

Animal or animal group 1:	Animal or animal group 2:	Animal or animal group 3:
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There are two questions about the three animals or animal groups you have selected:

(c) Describe EACH animal's or animal group's different adaptations for the life process you selected.

This question is repeated on page 3.

(d) Compare the adaptations of the three animals or animal groups for the life process you selected and discuss how these adaptations are related to their way of life.

This question is repeated on page 6.

(c) Describe EACH animal's or animal group's different adaptations for the life process you selected.
You may use diagrams in your answer.

Animal or animal group 1

Animal or animal group 2

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Animal or animal group 3

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1. **What is the primary purpose of the study?**

(d) Compare the adaptations of the three animals or animal groups for the life process you selected and discuss how these adaptations are related to their way of life. You may use diagrams in your answer. Previous diagrams or information can be referred to instead of being redrawn or rewritten.

**Extra paper for continuation of answers if required.
Clearly number the question.**

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Question Number

**Extra paper for continuation of answers if required.
Clearly number the question.**

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