

For Supervisor's use only

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90463



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



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

Level 2 Biology, 2003

90463 Describe diversity in the structure and function of plants

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 2–7 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 plants.	<input type="checkbox"/>	<input type="checkbox"/>	Explain diversity in the structure and function of plants.	<input type="checkbox"/>	Discuss diversity in the structure and function of plants.
Overall Level of Performance					<input type="checkbox"/>

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

The environment plants live in causes special problems for them. The environment also provides opportunities that the plants can use. Different plants and plant groups have developed diverse ways to overcome the problems and to use the opportunities provided by their environment.

This activity requires you to consider how and why two different plants or plant groups show diversity in the way they deal with problems and use opportunities in their environment.

For this activity you are required to select ONE of the following life processes:

- photosynthesis
- transport of materials
- reproduction

and TWO plants or plant groups that show diversity in relation to the selected process.

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

photosynthesis transport of materials reproduction

(b) Clearly identify TWO different types of plants or plant groups that **show diversity** in the way they deal with problems and use opportunities in their environment to carry out your selected process. Write the names of the two plants or plant groups in the boxes below.

Plant or plant group 1:	Plant or plant group 2:
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There are two questions about the two plants or plant groups you have selected:

(c) Describe how EACH plant or plant group uses its different features to carry out the life process you selected.

This question is repeated on page 3.

(d) Compare the features of the two plants or plant groups for the life process you selected and discuss how these features are linked to either the problems OR opportunities provided by their environment.

This question is repeated on page 5.

(c) Describe how EACH plant or plant group uses its different features to carry out the life process you selected.
You may use diagrams in your answer.

Plant or plant group 1

Plant or plant group 2

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

(d) Compare the features of the two plants or plant groups for the life process you selected and discuss how these features are linked to either the problems OR opportunities provided by their environment.
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

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Clearly number the question.**

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