

## Biology Assessment Task 2.

### Depth Study Report

Use the scaffold below to demonstrate your understanding of the information that you gathered on the field trip to Narrabeen.

#### **FIELD REPORT:**

##### **Introduction/ Abstract.**

- What is the purpose of your study?
- Include a short summary that states abiotic and biotic factors you measured and how they are linked. Reading the abstract should be a good indication of what is in the rest of the report.

##### **Gathered Data**

- List a set of results that you gathered, **in an appropriate scientific format that** shows an abiotic factor and a biotic factor in the area of study.
- Make sure you only include the data that you think is relevant to the purpose of your investigation

##### **Discussion**

- Describe the link between the abiotic and biotic measurements that you collated in your results. A brief summary of the results.
- How did you ensure that your results, data, were accurate and reliable?
- Description of any difficulties you experienced collecting your data on the field trip. (At least 2 statements about why it was easy or difficult). (If you didn't attend the field trip, describe difficulties that a scientist would experience in collecting data in a field study).
- Include a strategy you could use to improve the quality of data in this investigation

##### **Conclusions**

- Write a statement (2 points) to highlight possible impacts on your ecosystem from human interactions.
- Suggest a possible strategy to reduce the impact of this interaction

## Biology Assessment Task 2

### Marking Criteria:

**Total Mark /30**

Name \_\_\_\_\_

#### **Workbook**

<ul style="list-style-type: none"> <li>• Rock platform booklet fully completed</li> <li>• Sophisticated use of scientific language, used in the booklet</li> <li>• Extensive understanding of the skills used during the depth study, as indicated in the question responses in the booklet</li> </ul>	5
<ul style="list-style-type: none"> <li>• Rock platform booklet mostly completed</li> <li>• Sophisticated use of scientific language,</li> <li>• Thorough understanding of the skills used during the depth study, as indicated in the question responses in the booklet</li> </ul>	4
<ul style="list-style-type: none"> <li>• Rock platform booklet attempted</li> <li>• Some scientific language,</li> <li>• Some understanding of the skills used during the depth study, as indicated in the question responses in the booklet</li> </ul>	3
<ul style="list-style-type: none"> <li>• Rock platform booklet submitted</li> <li>• Some parts incomplete</li> </ul>	2
<ul style="list-style-type: none"> <li>• Rock platform booklet submitted</li> <li>• Multiple Incomplete sections</li> </ul>	1

#### **Introduction/ Abstract**

<ul style="list-style-type: none"> <li>• Purpose exceptionally stated</li> <li>• Summary statement relevant to this ecosystem exceptionally well-articulated and tentative links made between abiotic and biotic factors</li> <li>• Extensive use of biological terminology</li> </ul>	5
<ul style="list-style-type: none"> <li>• Purpose highly articulated</li> <li>• Summary statement relevant highly articulated and tentative links made between human activity and aquatic environment</li> <li>• Good use of biological terminology</li> </ul>	4
<ul style="list-style-type: none"> <li>• Purpose clearly articulated some areas not mentioned</li> <li>• Summary statement relevant and some links made between human activity and aquatic environment</li> <li>• Some use of biological terminology</li> </ul>	3
<ul style="list-style-type: none"> <li>• Purpose articulated some areas not mentioned. General terms used.</li> <li>• Summary statement somewhat relevant and some links made between abiotic and biotic factors using general terms</li> <li>• Some use of biological terminology</li> </ul>	2
<ul style="list-style-type: none"> <li>• Purpose attempted using general terms</li> <li>• Little or no Summary statement</li> <li>• Little use of biological terminology</li> </ul>	1

#### **Gathering data**

<ul style="list-style-type: none"> <li>• Data is displayed in an exceptional well produced format, graph and/or table</li> <li>• Data displayed is relevant for this investigation</li> </ul>	5
<ul style="list-style-type: none"> <li>• Data is displayed in a thoroughly produced format, graph and/or table</li> <li>• Data displayed is relevant for this investigation</li> </ul>	4
<ul style="list-style-type: none"> <li>• Data is displayed in soundly produced format, graph and/or table</li> <li>• Data displayed is relevant for this investigation</li> </ul>	3
<ul style="list-style-type: none"> <li>• Data is displayed in a format, graph and/or table. Poorly constructed with many aspects of graph or table missing</li> <li>• Data displayed is relevant for this investigation</li> </ul>	2
<ul style="list-style-type: none"> <li>• Data is displayed in a format, graph and/or table. Hard to identify trend or what the table is presenting</li> <li>• Data displayed is somewhat relevant for this investigation</li> </ul>	1

## Discussion

Marking Criteria (Each section some areas may be missing resulting in less marks)	Marks
<ul style="list-style-type: none"> <li>• Links made between abiotic and biotic factors to an exceptional standard</li> <li>• An exceptional understanding of the science behind the links</li> <li>• An exceptional explanation of results, accuracy and reliability of the data</li> <li>• An exceptional understanding of the difficulties in gathering first hand data</li> <li>• An exceptional understanding of how to improve investigation</li> </ul>	10 or 9
<ul style="list-style-type: none"> <li>• Links made between abiotic and biotic factors to an exceptional standard</li> <li>• A thorough understanding of the science behind the links</li> <li>• A thorough explanation of results, accuracy and reliability of the data</li> <li>• A thorough understanding of the difficulties in gathering first hand data</li> <li>• A thorough understanding of how to improve investigation</li> </ul>	8 or 7
<ul style="list-style-type: none"> <li>• Some links made between abiotic and biotic factors to an exceptional standard</li> <li>• A good understanding of the science behind the links</li> <li>• A good explanation of results, accuracy and reliability of the data</li> <li>• A good understanding of the difficulties in gathering first hand data</li> <li>• A good understanding of how to improve investigation</li> </ul>	6 or 5
<ul style="list-style-type: none"> <li>• Some links made between abiotic and biotic factors to an exceptional standard</li> <li>• An understanding of the science behind the links</li> <li>• An explanation of results, accuracy and reliability of the data</li> <li>• An understanding of the difficulties in gathering first hand data</li> <li>• An understanding of how to improve investigation</li> </ul>	4 or 3
<ul style="list-style-type: none"> <li>• A link made between abiotic and biotic factors to an exceptional standard</li> <li>• Mostly an understanding of the science behind the links</li> <li>• Some explanation of results, accuracy and reliability of the data</li> <li>• Some understanding of the difficulties in gathering first hand data</li> <li>• Some understanding of how to improve investigation</li> </ul>	2 or 1

## Conclusion

Marking Criteria	Marks
<ul style="list-style-type: none"> <li>• A correlation between the biotic and abiotic factors is exceptionally well articulated.</li> <li>• Two aspects of their investigation discussed</li> <li>• Possible future consequences of the environment are well discussed and exceptionally reasoned based on evidence or suggested evidence</li> </ul>	5
<ul style="list-style-type: none"> <li>• A correlation between the biotic and abiotic factors is exceptionally well articulated.</li> <li>• Two aspects of their investigation discussed</li> <li>• Possible future consequences of the environment are well discussed and thoroughly reasoned based on evidence or suggested evidence</li> </ul>	4
<ul style="list-style-type: none"> <li>• A correlation between the biotic and abiotic factors is well articulated.</li> <li>• Two aspects of their investigation discussed</li> <li>• Possible future consequences of the environment are well discussed and well-reasoned based on evidence or suggested evidence</li> </ul>	3
<ul style="list-style-type: none"> <li>• A correlation between the biotic and abiotic factors is articulated.</li> <li>• One or two aspects of their investigation discussed</li> <li>• Some thoughts about possible future consequences of the environment are discussed based on some evidence</li> </ul>	2
<ul style="list-style-type: none"> <li>• A correlation between the biotic and abiotic factors is somewhat articulated.</li> <li>• One aspect of their investigation discussed</li> <li>• Possible future consequences of the environment are well discussed</li> </ul>	1

## Feedback:

---



---



---



---



---



---

