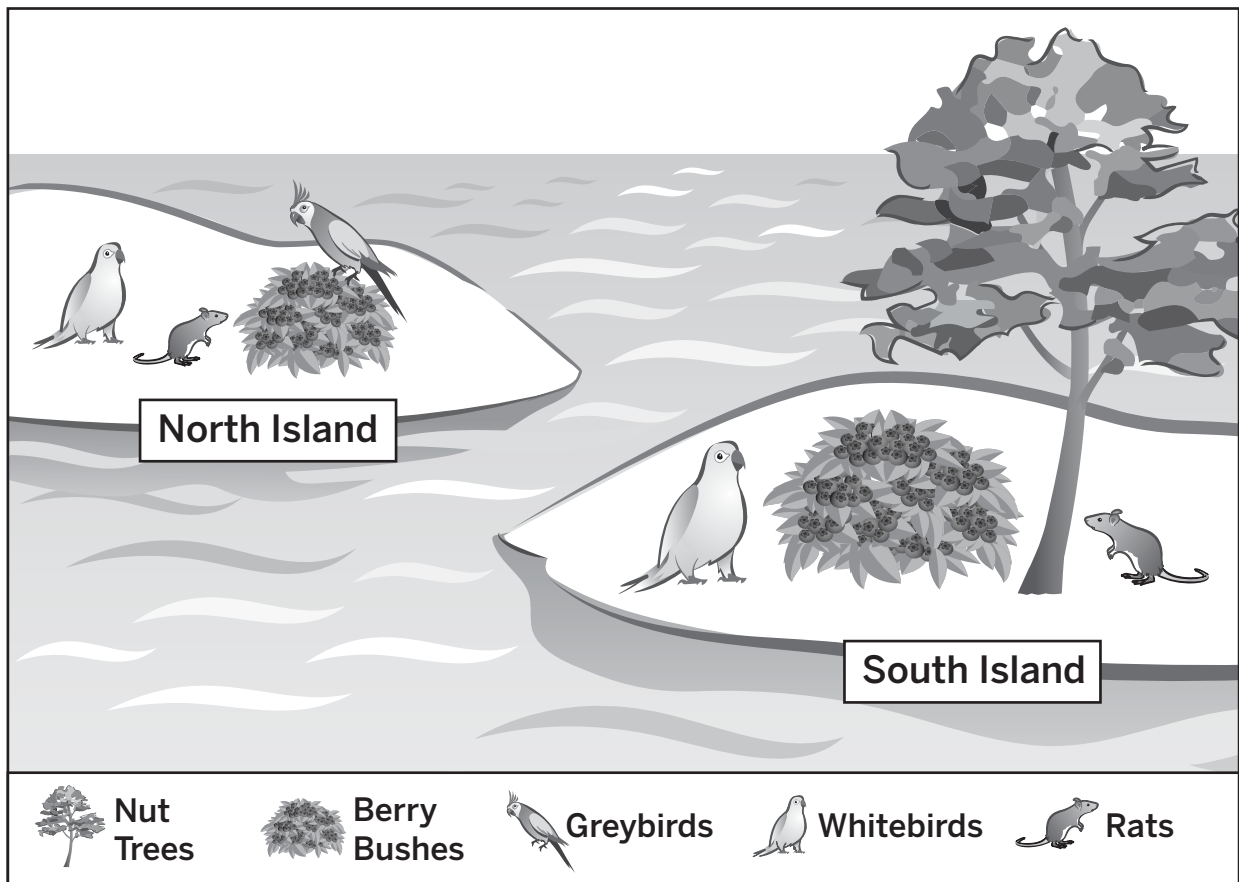


Chapter 1 Assessment

1. Graybirds and whitebirds live on North Island. Both types of birds eat the berries of the berry bush. The seeds of the berry bush grow best after the berries are eaten by birds and dropped elsewhere around the island.

Whitebirds are also found on nearby South Island. The whitebirds on South Island eat berries and the nuts of the nut tree.

Rats are found on both islands. The rats eat berries and bird eggs.



Chapter 1 Assessment

Continued

Name _____

1a. Identify examples of competition, predator-prey, and mutualism between species on each island.

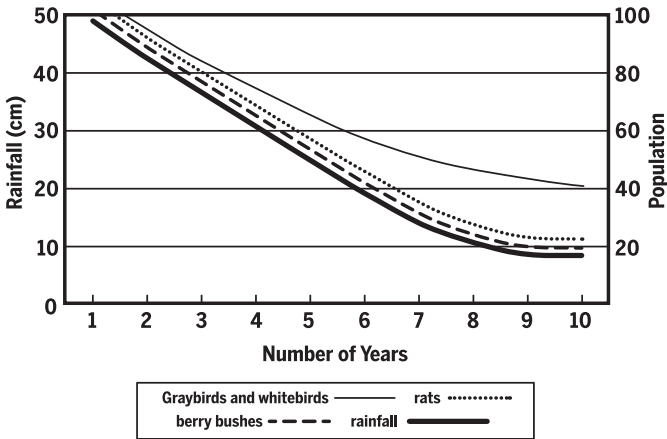
North Island	South Island
<p>Example of competition:</p> <p>Why is this an example of competition?</p>	<p>Example of competition:</p> <p>Why is this an example of competition?</p>
<p>Example of predator-prey:</p> <p>Why is this an example of predator-prey?</p>	<p>Example of predator-prey:</p> <p>Why is this an example of predator-prey?</p>
<p>Example of mutualism:</p> <p>Why is this an example of mutualism?</p>	<p>Example of mutualism:</p> <p>Why is this an example of mutualism?</p>

Chapter 1 Assessment

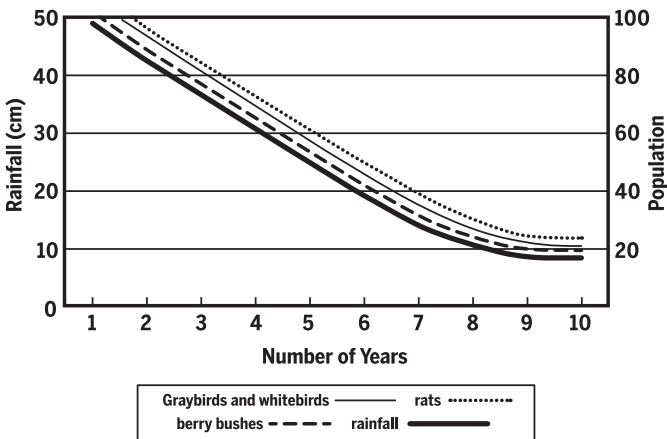
Name _____

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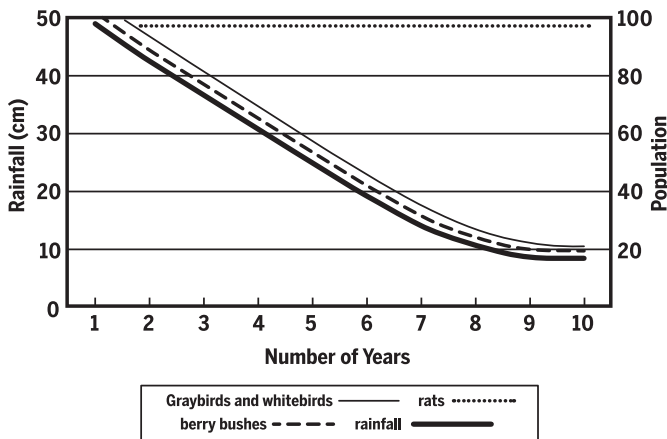
1b. Berry bushes need lots of rainfall. Make an X in the box next to the graph below that best predicts what would happen to the populations on the **North Island** during a 10-year period of decreasing rain. Using the space to the right of the other two graphs, explain why these graphs are not the best predictions of what would happen during the period of decreasing rain. You do not need to write anything next to the graph you chose as the best prediction.



A.



B.



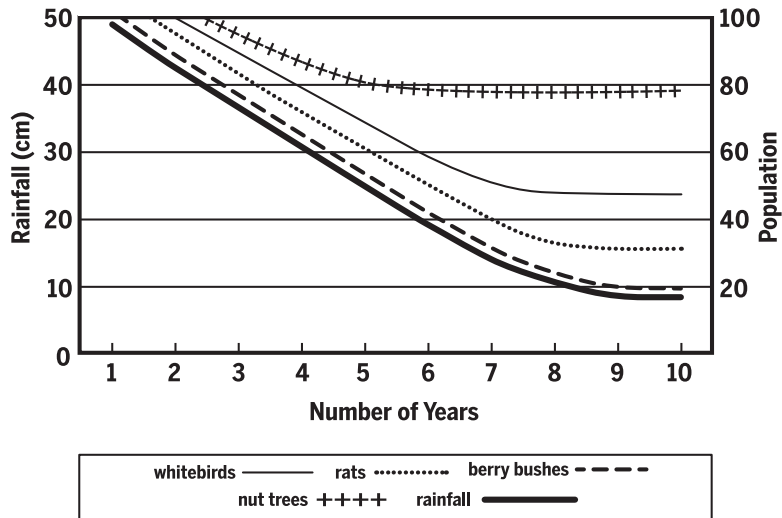
C.

Chapter 1 Assessment

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Continued

1c. The graph below shows how the populations on the South Island changed during the same 10-year period of decreasing rain. Nut trees do not need a lot of rain. Construct a complete scientific explanation that answers the question, “Why did the population of whitebirds decrease to about half of what it was before?”



Your explanation should include the following:

- The scientific question
- Your claim
- The relevant evidence that supports your claim
- The science concepts that support the evidence
- Your scientific reasoning that links the evidence and science concepts to the claim
