

Ministry of Education and Youth

Primary Exit Profile (PEP 5)

June 2022

Performance Task - Science

Time: 1 hour 30 minutes

Write your name and the name of your school below:

Name of Student

Name of School

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2 1 ■ **General Instructions:**

This task has three parts: Part 1, Part 2, and Part 3.

Read the information in each part carefully. Use the information provided to answer ALL questions in each part.

Instructions to Begin:

Carefully read the introduction to the task then move on to answer each question.

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Introduction to Task

Pond Project



A group of grade 5 students was asked to be a part of their school's Pond Project. The students were asked to **observe the school's pond for four months (January to April)** and collect data on the living things they saw.

The students were asked to complete the following tasks:

- name the organisms they saw in the pond, and make notes on what each organism ate
- create two food chains to show what each organism ate
- investigate how organisms in and around the pond could be affected by each other and their environment
- record and explain changes in the population sizes of two organisms over the four months

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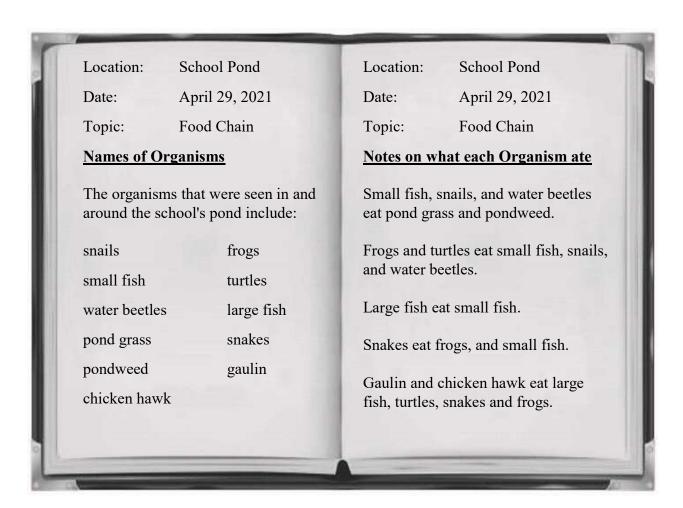
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Part 1 - The Observation

Two pages from a grade 5 student's notebook are shown below. The student's name is Marsha. The pages show the notes she made while observing the pond over the four-month period.

- The page on the left shows the **names of the organisms** Marsha was able to identify.
- The page on the right shows what each organism ate.

Examine the pages from Marsha's notebook then use them to answer questions 1, 2 and 3.



Marsha and her group members were asked to create two food chains. The diagram below shows one of the food chains they created. Use it to answer question 1.

pond grass → snail → frog → gaulin

1. Use the food chain to identify one producer and one consumer.

Producer ____

Consumer ____

Help Marsha and her group members by creating the second food chain in the space provided below.

2. Use the information in Marsha's notebook to create the second food chain. The food chain should have more than three organisms.

Do not use any of the organisms used in the first food chain.



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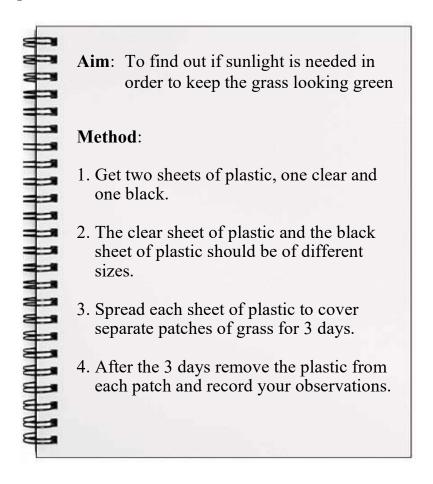
Identify a predator of the turtle. Explain ONE possible effect that a DECREASE **3.** in the turtle population could have on this predator. Justify your explanation using information from Marsha's notebook. Name of turtle's predator: **Explain here:** Ь MOEY/SAU/

Part 2 - Testing a Hypothesis

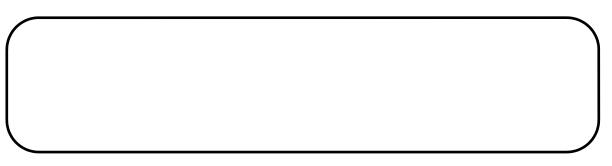
At different points near the pond, the grass looked brown. The group believed that the grass looked brown because it did not receive enough sunlight.

The group decided to carry out an investigation to test their hypothesis.

The aim and method for the investigation is shown below. Use the information to answer question 4.



4. ONE of the steps in the method is INCORRECT. In the space provided below, write the correct step so that the investigation will represent a fair test.



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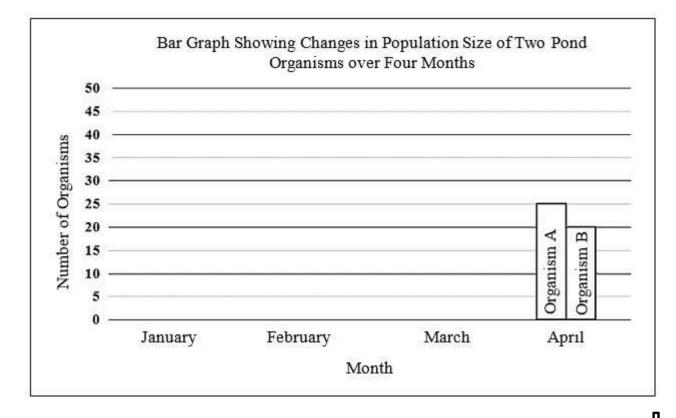
Part 3 - Presenting Data

The group of students was asked to record the population size of two pond organisms; **Organism A and Organism B**. This was done once each month for four months. The table below shows the group's findings.

Table Showing Population Size of Two Pond Organisms over Four Months

	Population Size		
Month	Organism A	Organism B	
January	45	5	
February	40	10	
March	35	15	
April	25	20	

5A. The data in the table was used to create the bar graph shown below. **The bar graph is incomplete.** Use the table to complete the bar graph for January, February, and March. April was done for you. **Be sure to label each bar.**

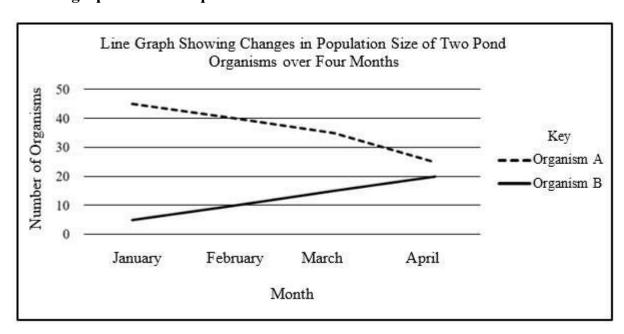


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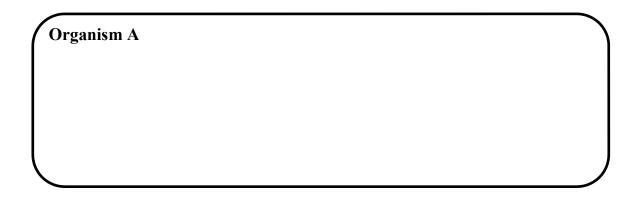
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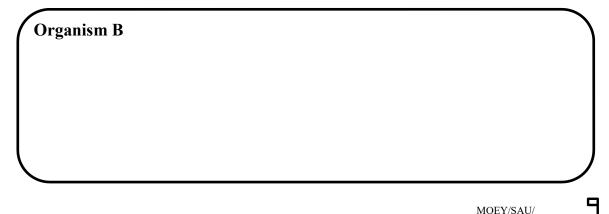
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The students also used the data in the table to create the line graph shown below. Use the graph to answer question 5B.



5B. Describe what happened to the population size of each organism from January to April.





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Use the line graph to answer question 6. After observing how the population of Organism A and Organism B changed from January to April, a student made the following statement. Statement: Organism B is a predator and it feeds on Organism A. 6. Do you agree with the statement? Using information from the line graph, give ONE reason to support your answer.			
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