



# 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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**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.**





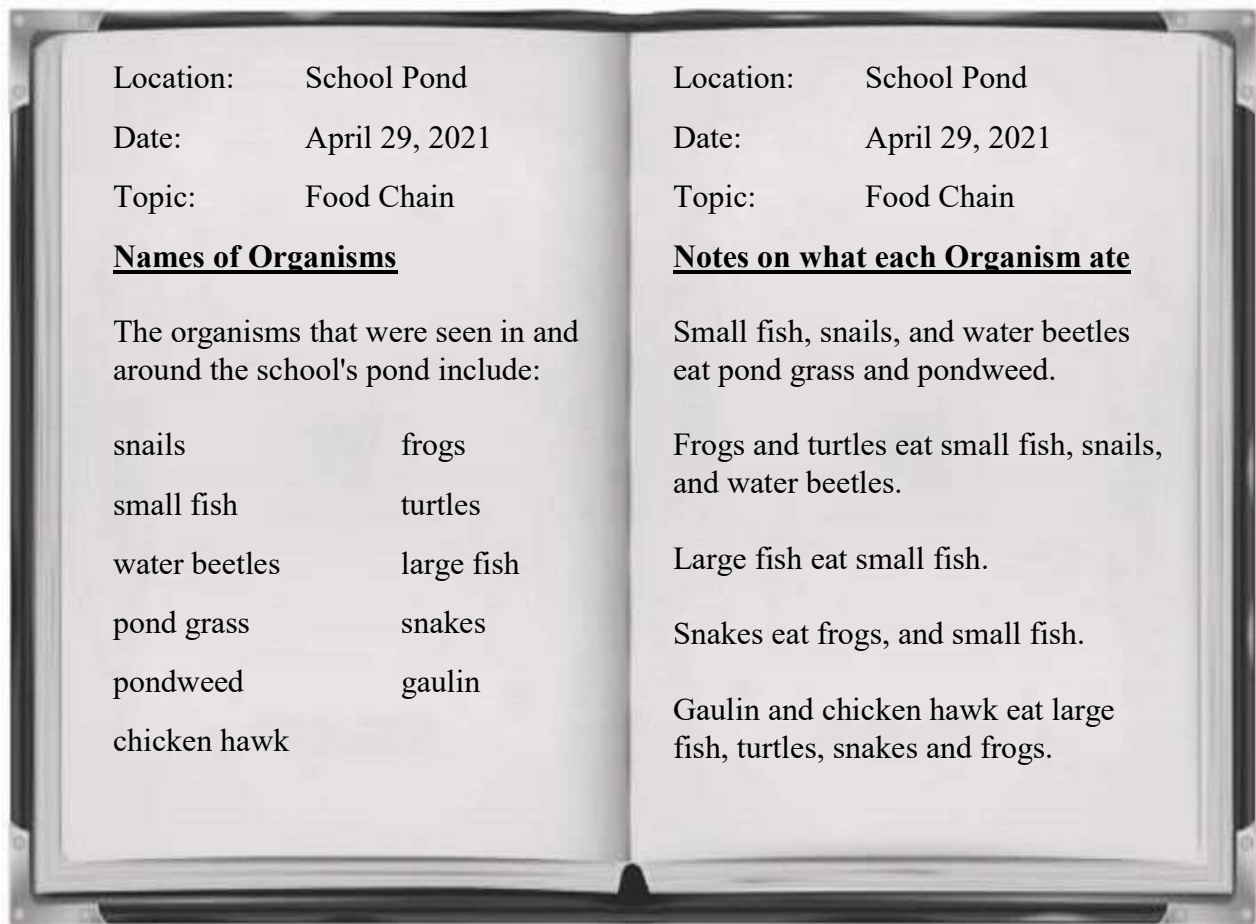
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## Part 1 - The Observation

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.





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3. Identify a predator of the turtle. Explain **ONE** possible effect that a **DECREASE** 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:**

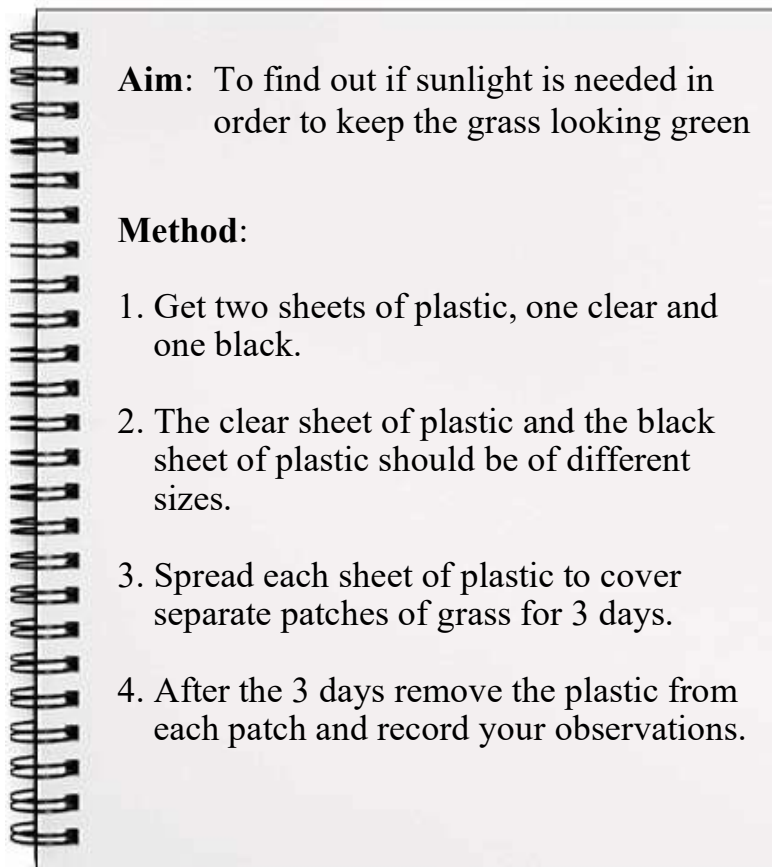


## Part 2 - Testing a Hypothesis

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.**



**Aim:** To find out if sunlight is needed in order to keep the grass looking green

**Method:**

1. Get two sheets of plastic, one clear and one black.
2. The clear sheet of plastic and the black sheet of plastic should be of different sizes.
3. Spread each sheet of plastic to cover separate patches of grass for 3 days.
4. After the 3 days remove the plastic from each patch and record your observations.

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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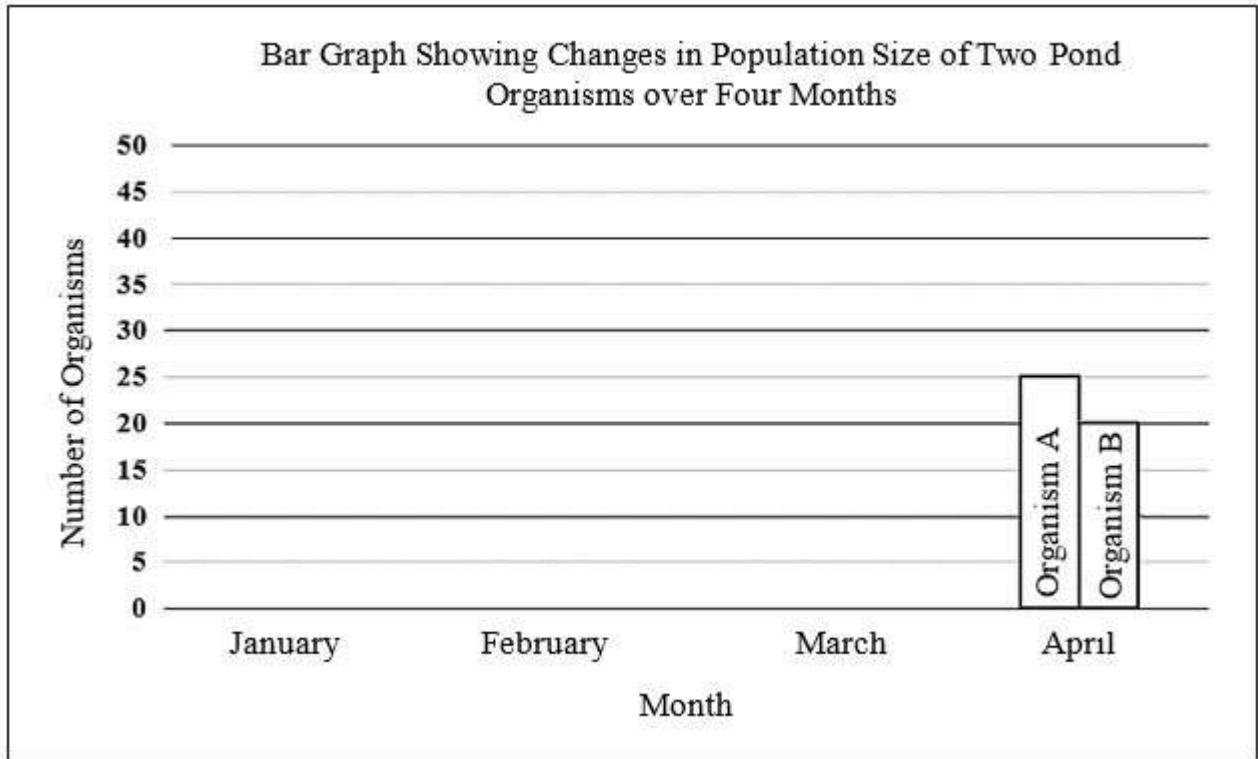
**Part 3 – Presenting Data**

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**

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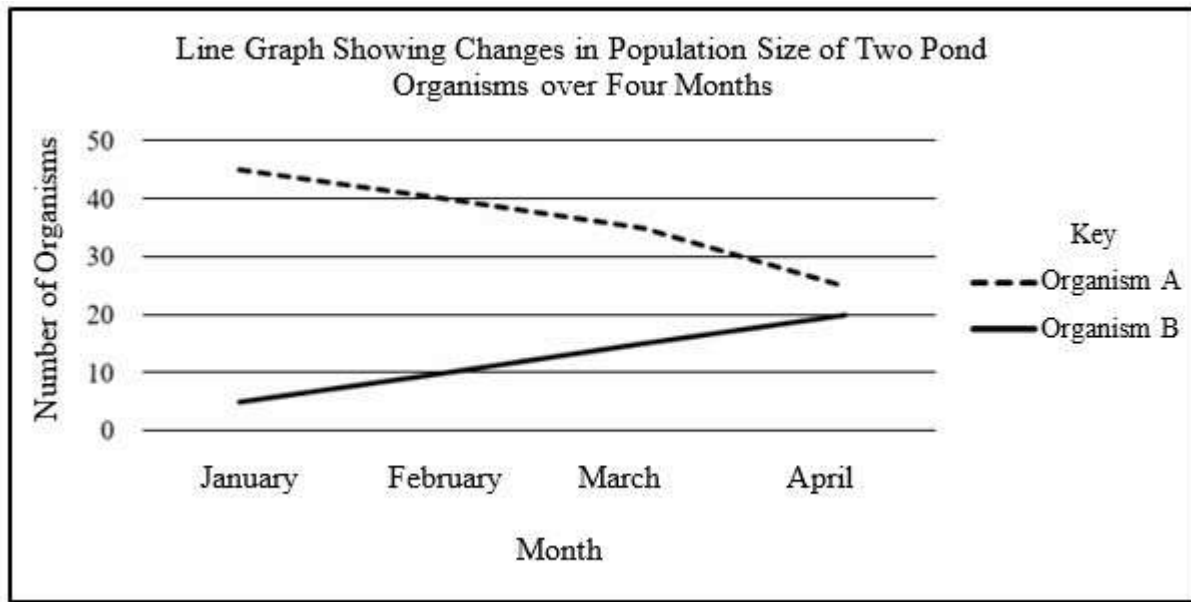
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The students also used the data in the table to create the line graph shown below. Use the graph to answer question 5B.



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

**Organism A**

**Organism B**

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