

## Introduction to Sustainable Ecosystems: The Silence of the Frogs – V4

SNC1D Full Name: \_\_\_\_\_ Cohort : \_\_\_\_ Day : \_\_\_\_ Date: \_\_\_\_\_

1. Read the Pearson text p 8-12 and answer the following questions. The pages are available online at <https://sites.google.com/tdsb.on.ca/rhsagr9science/ecosystems>

a) List 3 ways you are a steward of the environment.

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b) Why do First Nations/Aboriginal teach we must be careful **stewards** of the Earth?

c) Define **biodiversity** and use p. 9 table 1.1 to name the categories with the **most** and **least** biodiversity.

d) Define a **system** and **components**. Using Lake Ontario as a example system, name 5 components.

After reading the attached article “**Silence of the Frogs**” (on the website) answer the following questions.

2. What is happening to amphibian populations like frogs?

3.a) Where are frogs in a food chain?

b) Where are tadpoles in a food chain?

4. What were two consequences of the dramatic decline in the frog population in Bangladesh?

5. According to the article (p. 12-13), describe the four factors that might affect the worldwide disappearance of frogs.  
How does the **life cycle, population size or skin** of the frog relate to each of these **four factors**?

a) loss of habitat

b) air and water pollution

c) ultraviolet (UV) radiation

d) climate change

6. Frogs are **bio-indicator species** used by ecologists to **measure the health of ecosystems**.

Why does the life cycle of frogs help to make them good bio-indicator species? State two reasons. This is a **thinking** question and the answer is not written in the article.

7. If your class did not watch the video **Importance (Benefits) of Frogs** go to

<https://sites.google.com/tdsb.on.ca/rhsagr9science/ecosystems> and watch the video now.

What do you think are the two most important ideas in the video?