SNC1D
CHAPTER 3: BIODIVERSITY

3.1: MEASURING BIODIVERSITY

See page 89:

1.   What is **biodiversity**?

2.   What does it mean to **protect** a species in an ecosystem?

3.   How many species have scientists identified? How many species are estimated to exist on earth?

4.   A)   List some of the most recent identifications of new species.

        B)   Research the internet for the most recent species identified.
                When did this occur?

5.   Explain one method used to collect data on biodiversity.

6.   Why should scientists record information about biodiversity?

7.   How does protecting an ecosystem, such as a wetland, help to preserve biodiversity?

Section 3.1 Review

1. Complete each sentence. Use these words.

    biodiversity   species   protect   ecosystem

    _____describes the number of organisms found in one area. A healthy

    _____has many different plants and animals in it. We should _____

    _____that are at risk, to preserve biodiversity.

2. Complete this Venn diagram using these phrases:

    studies a square area   *studies along a line*
    helps count the number of species in a habitat   *counts at intervals*
    counts in many areas   *good for counting types of species*
    good for plants/animals that do not move around   *good for counting the number of each species*

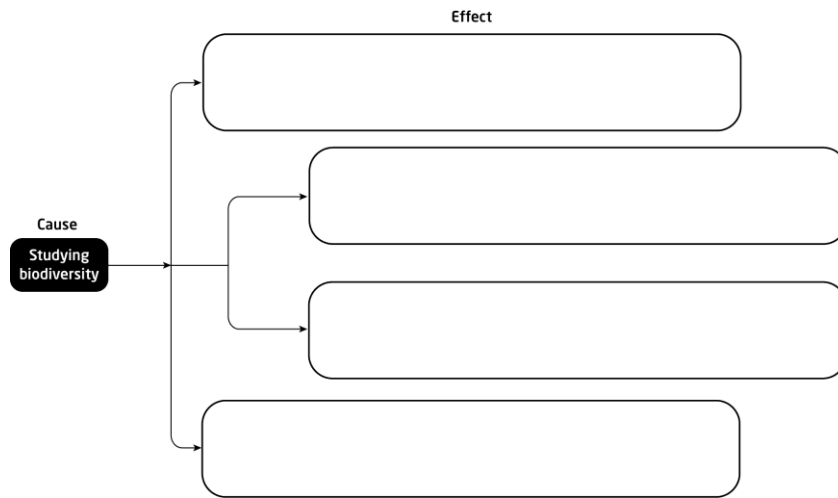   Quadrat sampling   Transect sampling
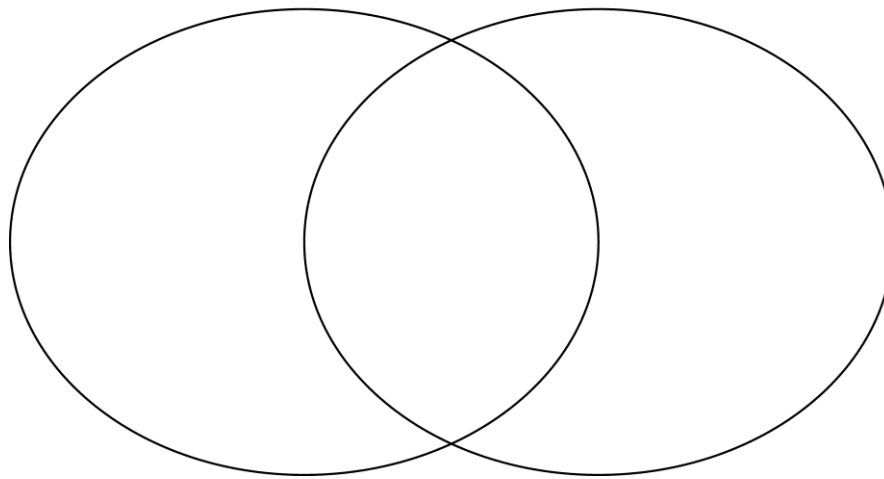
3. a) Complete the table.

	Quadrat sampling	**Transect sampling**
Positive things (+)		
Negative things (-)		

   b) I would use _____ (quadrat/transect) sampling to find the biodiversity of fish in a lake.

4. Why is it important to study biodiversity? Complete this cause and effect map.

Effect

Cause

Studying biodiversity

5. Look at Figure 3.5 (Page 93). Name a biodiversity hotspot in the tropics. _____

Describe the hotspot. _____

_____

6. There are more than 5 million species on Earth. Scientists have identified only about 2

million species. They have not identified others because _____

_____

7. Complete this sentence:

Most of the world's biological hotspots are in the tropics because _____

_____

8. Why does Canada work to protect ecosystems in other parts of the world?

_____

_____

_____

_____

_____

_____