As a class you will be collecting information about the biodiversity of your schoolyard. You will be recording information on the population of living things in different areas around the school. Quietly observe your area and record the species and population numbers you observe, using Table 1: Species Observations.

Note: You do not need to know the scientific names, just make sure you record everything you see including different types of plants. This task is about collecting and analysing the data so you can simply describe the species you observe. Examples of categories include: mammals, birds, reptiles, amphibians, fish, insects, trees, shrubs, small plants, grasses, fungi, moss and lichen.

Table 1: Species Observation

Group number		
Description of area:		
Species names	Populations observed	
Total species:	Total organisms:	



Display your data using a column graph where the species name as the category on the x-axis and the population observed as the frequency on the y-axis.	
Which category is most common?	
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Now group your data using Plant and Not Plant categories and create a new column graph using these two categories.

Table 2: Plant and Non-Plant

	Total organimsms in each category
Plant	
Non-Plant	

Which category was most common?

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It is estimated that world wide there are thousands more species of plants than animals.

Do your statistics support this statement? Explain your answer by describing your area in comparison to the entire schoolyard.

We now want to further investigate the Biodiversity of you area.

A Biodiversity Index is a measure of the health of an ecosystem. Calculate the Biodiversity Index of your area using the formula:

$$BIODIVERSITY\ INDEX = \frac{TOTAL\ NUMBER\ OF\ SPECIES}{TOTAL\ NUMBER\ OF\ ORGANISMS}$$

The Biodiversity Index of my area is:

Note: This will be an estimate as to calculate the exact Biodiversity index you need to count EVERY living thing!

Do you think this is an accurate representation of the Biodiversity of the entire school? Why/Why not?

What was the mean population of a species in your area?

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