



# Introduction to Ecosystems

Ecosystem

\_\_\_\_\_ :

Population

\_\_\_\_\_ :

\_\_\_\_\_ :

Community

\_\_\_\_\_ :

\_\_\_\_\_ :

Habitat

\_\_\_\_\_ \_\_\_\_\_ :

e.g.

Niche

Rock Pool

→  
Playing Field

→  
Large Tree

Tropic Level



# Population Key Terms

Species

\_\_\_\_\_ :

Population

\_\_\_\_\_ :



Community

\_\_\_\_\_ :

Gene Pool

\_\_\_\_\_ :

e.g.

Allele Frequency

\_\_\_\_\_ :

\_\_\_\_\_ :

Evolution

Differential Reproductive Success

\_\_\_\_\_ :

Speciation



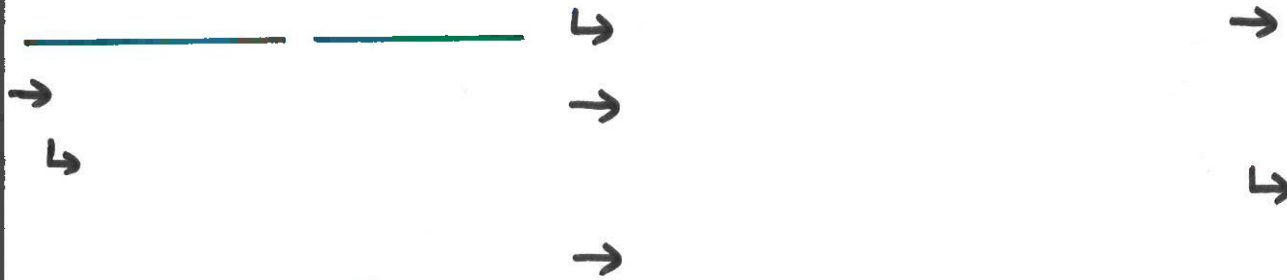
# Abundance & Distribution of Organisms

1 2 3 4 5

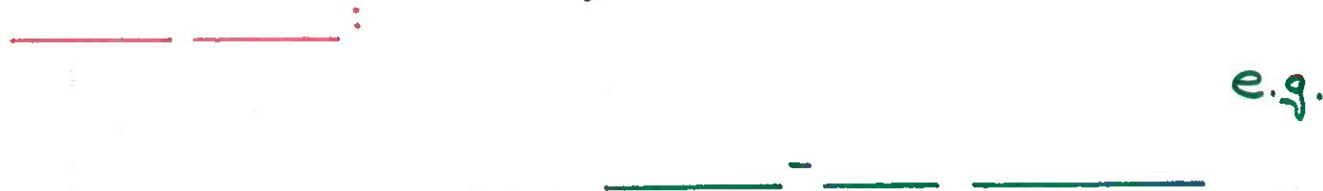
Abundance



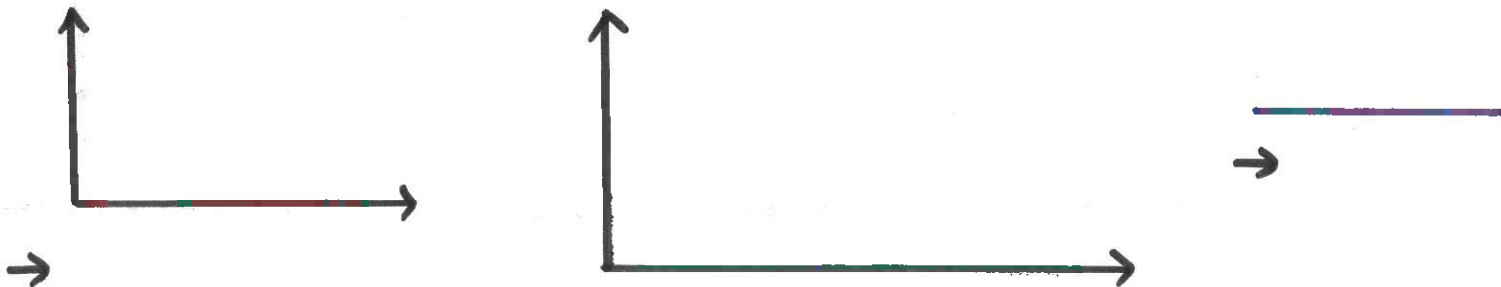
Distribution



Carrying Capacity



Limiting Factor



e.g.



# Investigating Populations: Sampling.

Sampling.



Random Sampling.

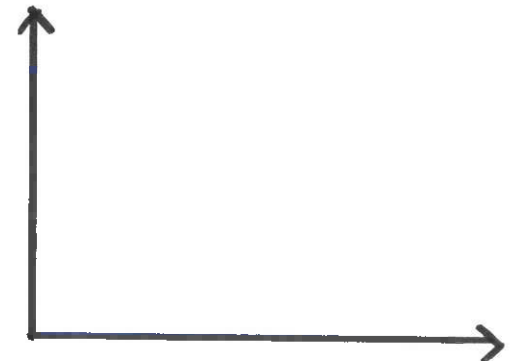


Non-Random Sampling.

e.g.



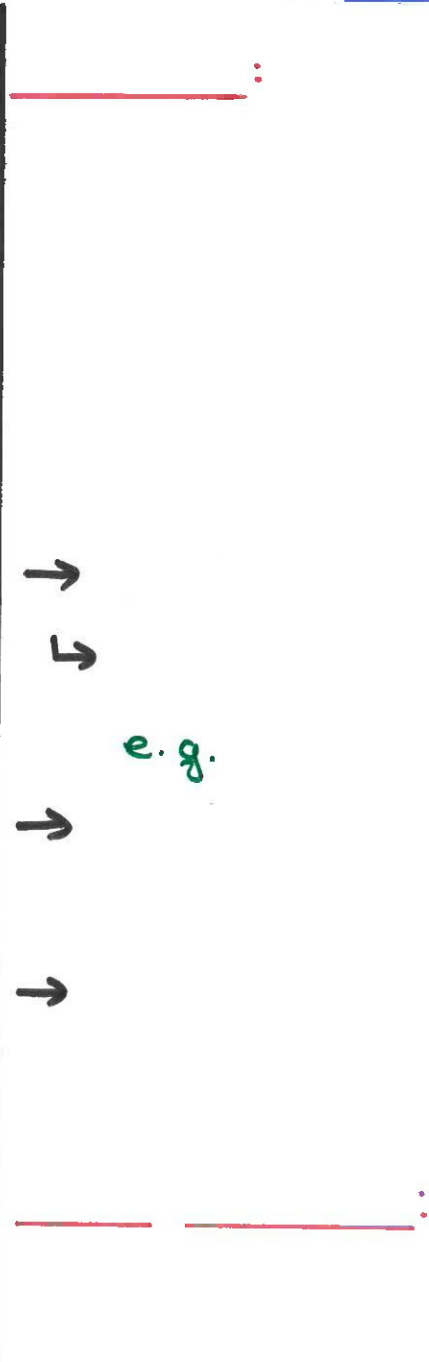
How many samples to do?





# Succession

Succession



Climax  
Community

e.g.

As Succession takes place

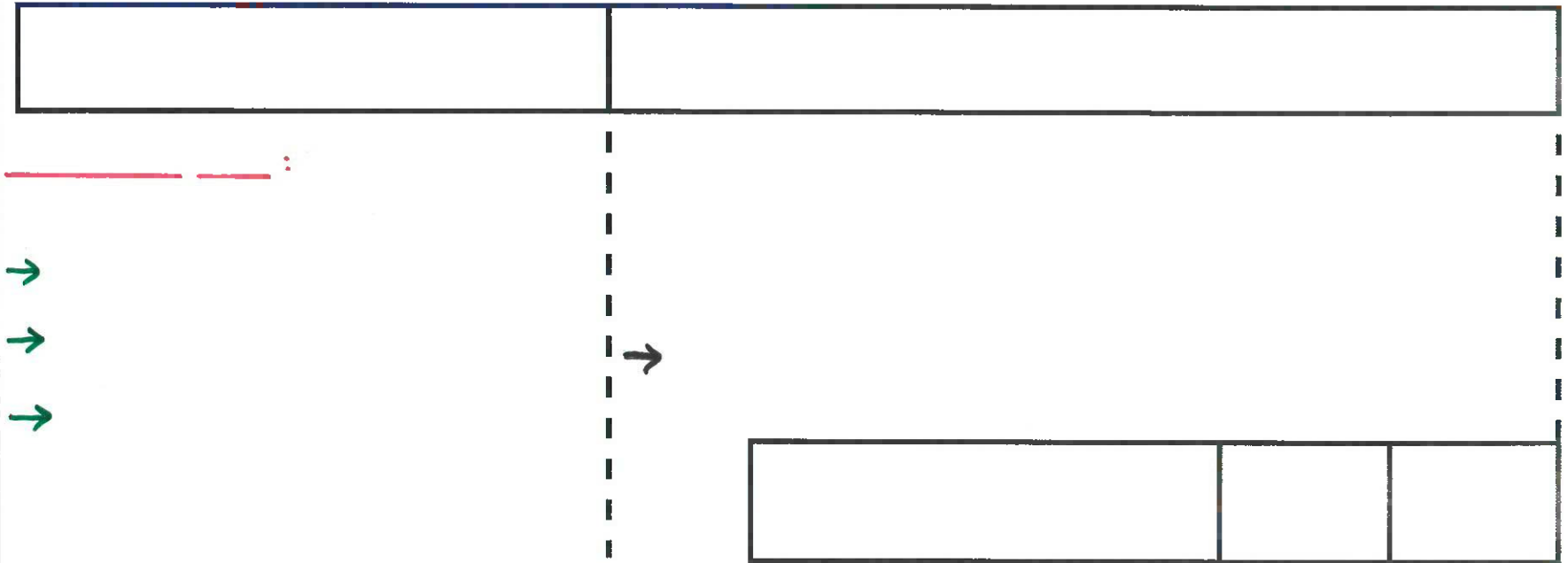




Respiratory loss

# Productivity

1 2 3 4 5



Calculating Energy Transfer Efficiency

$$T =$$

$$N =$$



# Energy Transfer Efficiency Through Ecosystems

1 2 3 4 5

