Population Key Terms

1 2 3 4 5

Species

Population

Community

Gene Pool

e.g.

Allele Frequency

Evolution

Differential Reproductive Success

Speciation

TT

The Hardy-Weinberg Principle

The Hardy-Weinberg Principle

1 2 3 4 5

___ _____-_____ _____:

Predictions

→

↳

Equation

+ =

+ =

Assumptions

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→

→

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→ **Question** 51% Unbanded bb = banded

→

+ + =

Variation

1 2 3 4 5

Intraspecific Variation

Interspecific Variation

Continuous Variation

Discontinuous Variation

Genetic Causes	Environmental Causes	Both
e.g.	e.g.	e.g.

Speciation

_____ :

→

_____ _____ _____ _____

e.g.

→
→

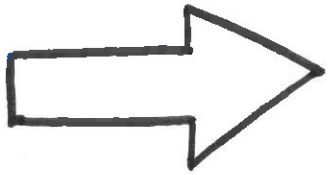
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Genetic Drift

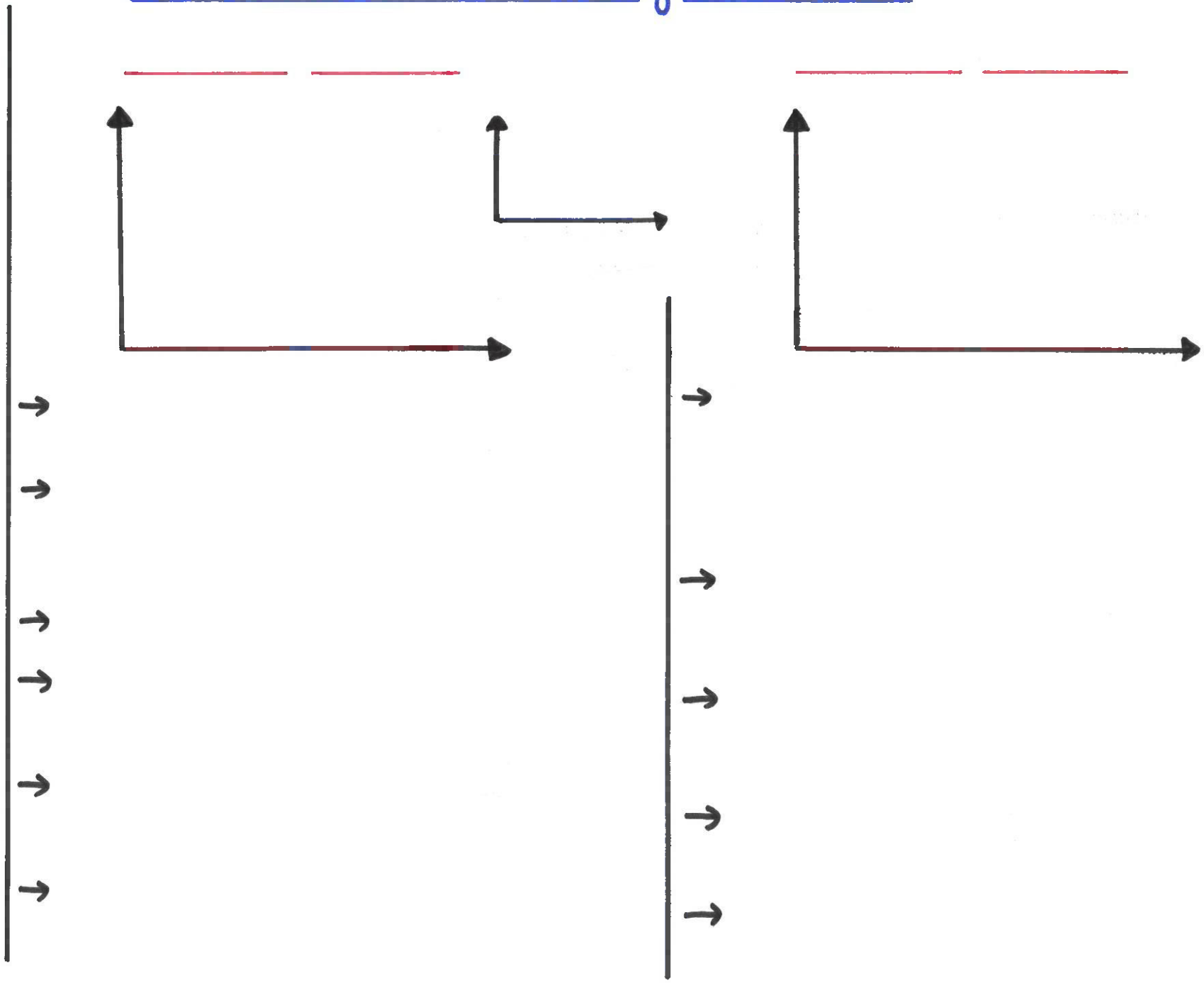
Genetic Drift _____ _____ :

e.g.



Directional & Stabilising Selection

1 2 3 4 5



Disruptive Selection

1 2 3 4 5

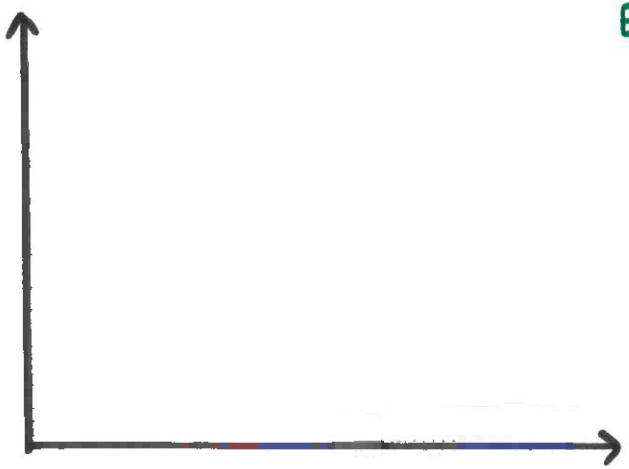
Stabilising Selection :



Directional Selection :



Disruptive Selection :



E.g.

Genotype =

Abundance & Distribution of Organisms

1 2 3 4 5

Abundance

Distribution

Carrying Capacity

Limiting Factor

e.g.

e.g.

The Niche Concept

Niche

_____ :

Biotic Relationships:

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→

Abiotic Relationships:

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→
→

Each species has its own niche

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e.g.

→
→
→

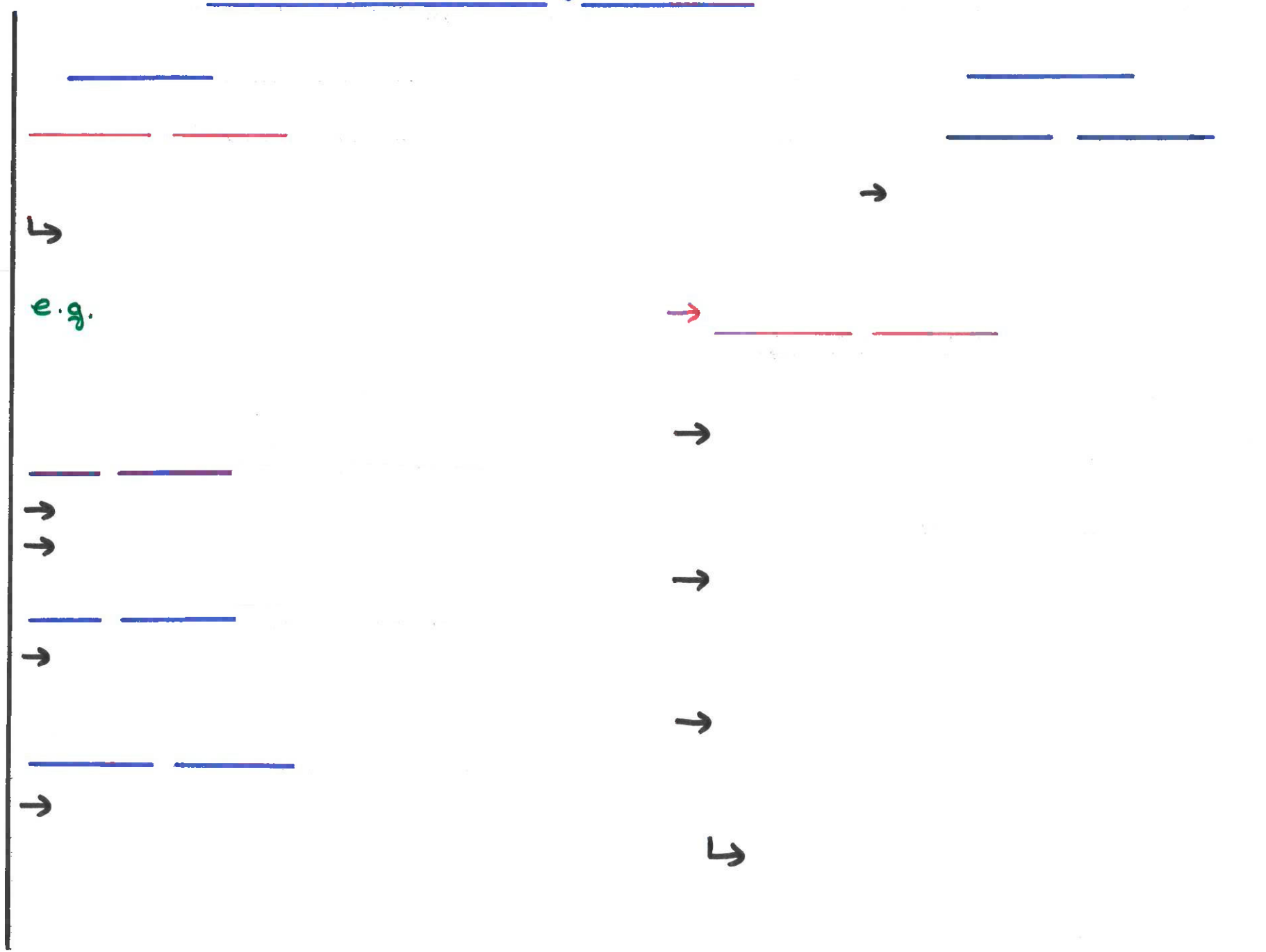
Transects & Quadrats

1 2 3 4 5

Systematic Sampling

e.g.

Random sampling



Investigating Populations: Sampling

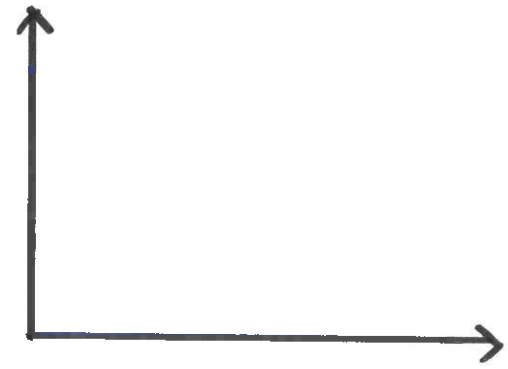
Sampling

Non-Random Sampling

e.g.

How many samples to do?

Random Sampling



Mark - Release - Recapture

1 2 3 4 5

$= \frac{\times}{\quad}$

Method

1)
2)
3)
4)
5)

Succession

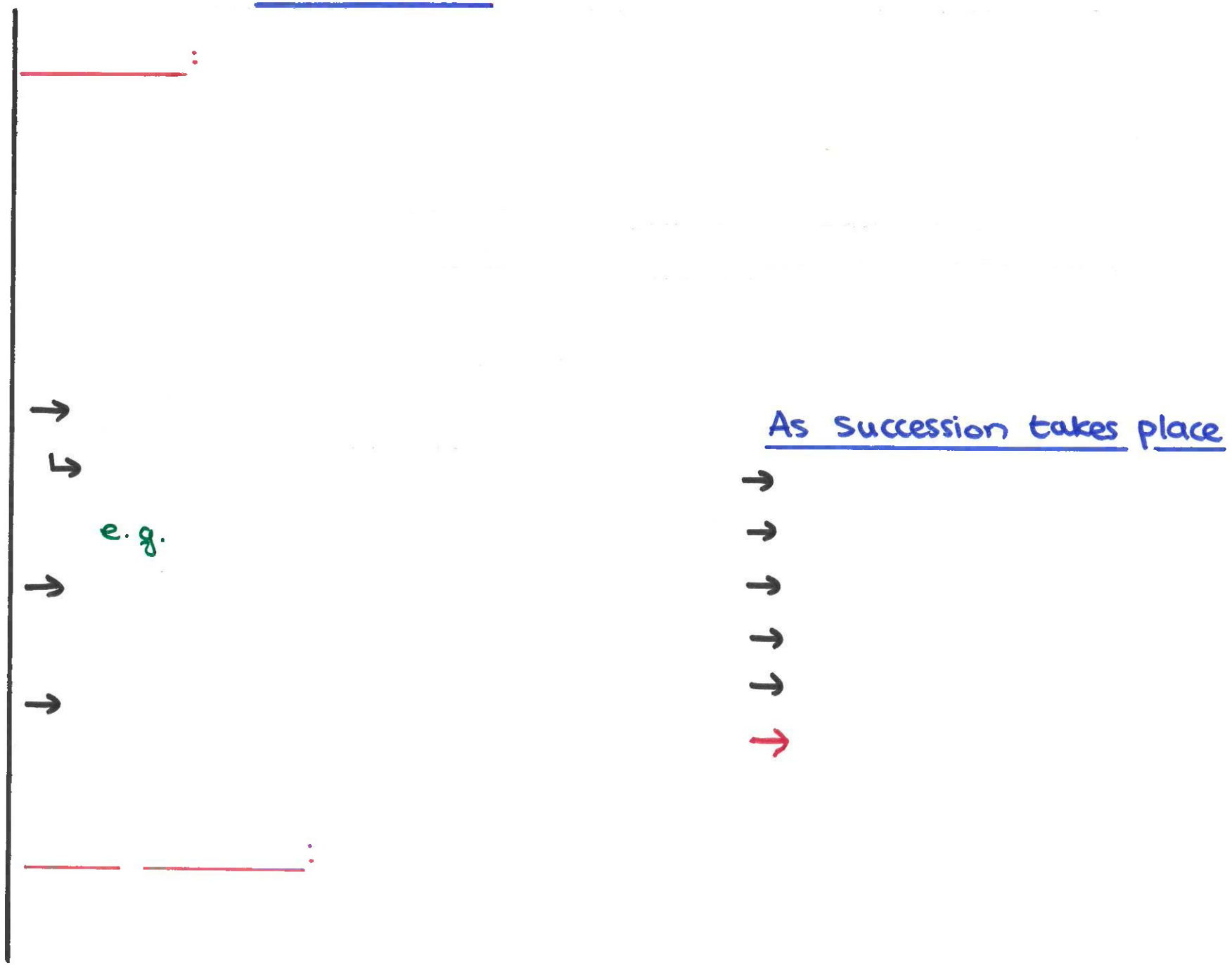
Succession _____:

Climax Community

e.g.

As Succession takes place

_____ _____:



Types of Succession

Deflected Succession

