



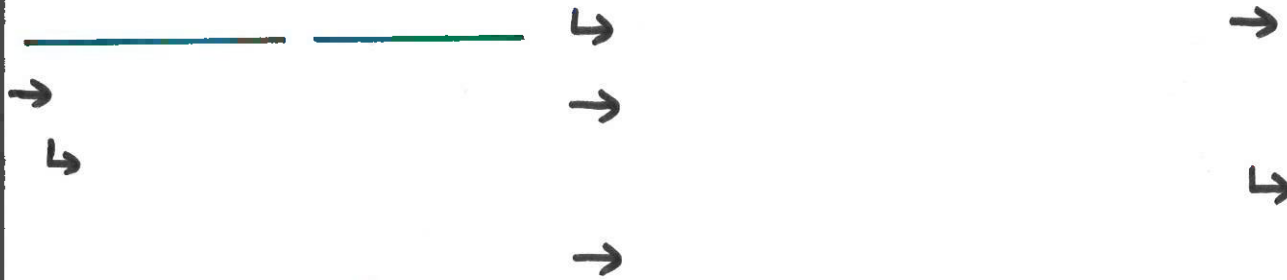
Abundance & Distribution of Organisms

1 2 3 4 5

Abundance



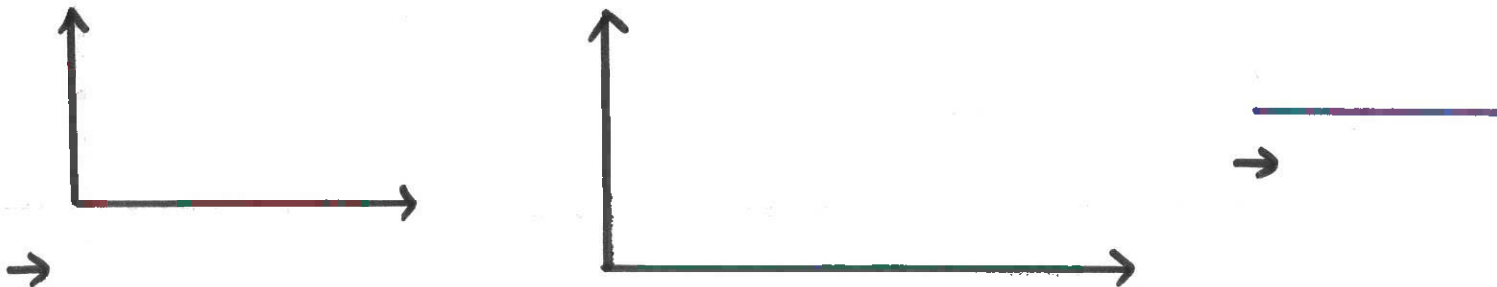
Distribution



Carrying Capacity



Limiting Factor



e.g.



The Niche Concept

Niche

_____ :

Biotic Relationships:

-
-
-

Abiotic Relationships:

-
-
-

Each species has its own niche

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-
-
-

e.g.

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-
-



Conservation & Preservation

Conservation



Economic

Social

Ethical



e.g.

Preservation

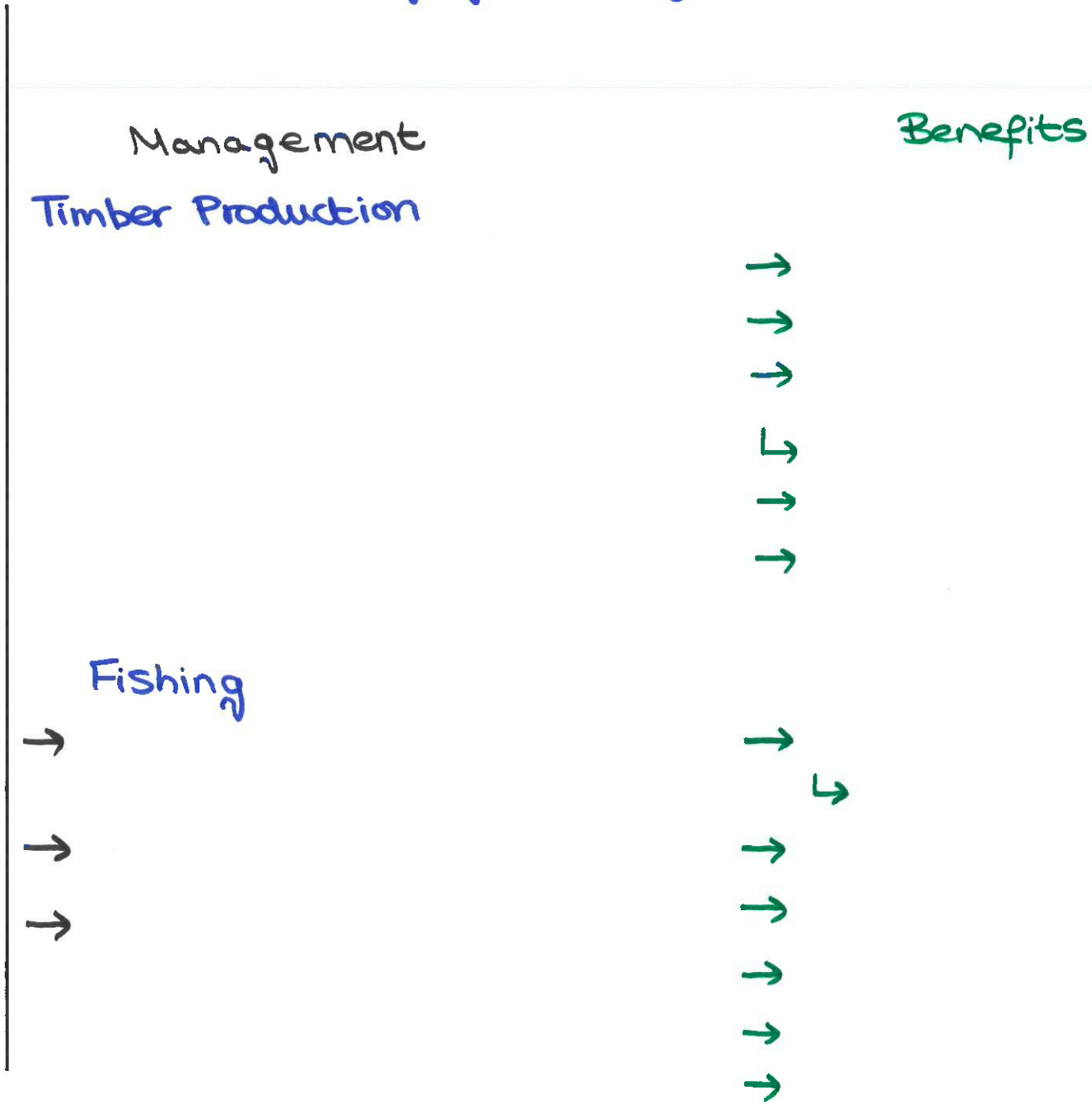


e.g.





Managing Ecosystems





Investigating Populations : Sampling

Sampling

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-
-
- ↳
-

General Rules

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- ↔
-
-
-
-

Random Sampling

-
-
-

Non-Random Sampling

Systematic Sampling

-
-

e.g.

Opportunistic Sampling

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- ↳
-

Stratified Sampling

-
-
- ↳
-



Transects & Quadrats

1 2 3 4 5

Systematic Sampling

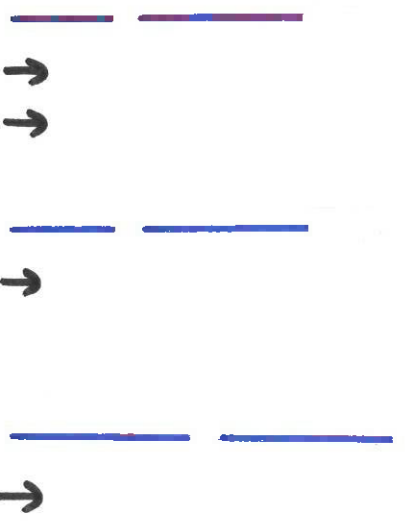


↳

e.g.



Random Sampling



→

→

→

↳



Ecosystem Management

<u>Masai Mara (Kenya)</u>	<u>Terai Region (Nepal)</u>	<u>Peat Bogs</u>
→	→	→
→	e.g.	→
→	→	→
e.g.	e.g.	→
→	→	→
→	→	→
→	e.g.	e.g.
→	→	→
→	e.g.	→



Environmentally Sensitive Ecosystems

Human Activity

Effects

Control

Galápagos

Antarctica



Environmentally Sensitive Ecosystems

Human Activity

Effects

Control

Snodonia
National Park
+
Lake District