

Leaving Certificate Ecology Fieldwork Portfolio

Ecosystem _____

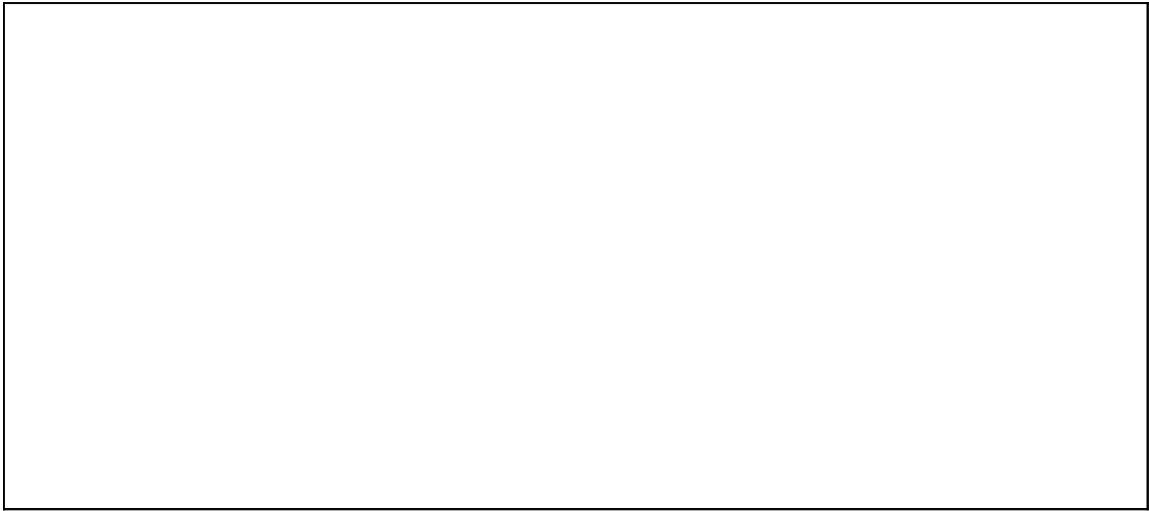
Location _____

Name _____

Date _____

School _____

Site Description



Site Map/Sketch

Collection Apparatus Used

Name:

Use:

Diagram

Name:

Use:

Diagram

Name:

Use:

Diagram

Name:

Use:

Diagram

Animal 1

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Animal 2

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Animal 3

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Animal 4

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Animal 5

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Plant 1

Name: _____

Habitat:

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Plant 2

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Plant 3

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Plant 4

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

Plant 5

Name: _____

Habitat: _____

Adaptation	
What it eats?	
Eaten by?	
Trophic Level in Food Chain	
Abiotic 1: Temperature How temperature affects organisms choice of habitat?	
Abiotic 2: Light intensity How Light Intensity affects organisms choice of habitat?	
Abiotic 3: Exposure/Slope How slope affects organisms choice of habitat?	
Abiotic 4: Other conditions How _____ affects organisms choice of habitat?	

How to investigate Abiotic Factors

Light Intensity

Light Intensity can be measured using a **light meter**. Light is measured in Lux. Do not take readings in direct sunlight. Take several readings and get the average for each habitat.

Temperature

Temperature can be measured using a thermometer. Temperature is measured in degrees Celsius. Take several readings and get the average for each habitat.

Slope/Degree of exposure to the air

The degree of exposure to the air (when the tide is out) can be judged by comparing the location of each organism with a **profile map**. Make a profile map using meter sticks and a spirit level.

Salinity

Collect water samples from rock pools in different regions on seashore. Place in labeled bottles, e.g. splash zone, high tide zone, mid-tide, low-tide, etc. or at measured distances along a line or belt transect. Measure salinity of each back in lab using a **conductivity meter**.

Relate results to position of plants and animals on seashore.

Quantitative Study

Display Of Results

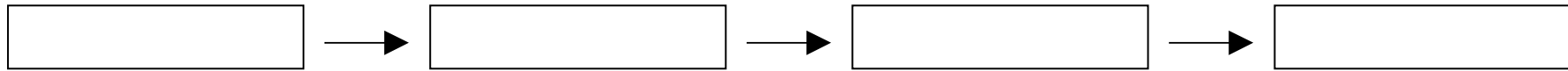
Conclusion:

% Cover Table

	Quadrat throw												
Plant Name	1	2	3	4	5	6	7	8	9	10	Total Hits	Total Points	% Cover

$$\% \text{ Cover} = \frac{\text{No. of Hits}}{\text{Total no. of points}} \times 100$$

Food Chain 1



Food Chain 2



Food Web

Pyramid of Numbers

Analysis and Assessment of Results

