

B7.4 Ecosystems- Revision Worksheet

State what the word **variation** means.

.....

Sort the following into whether they are examples of **continuous** or **discontinuous** variation.

- Length of hair
- Having a scar
- Eye colour
- Having a tattoo
- Height
- Mass
- Blood group
- Being able to roll your tongue

Describe how **species** and **hybrids** are different.

.....

.....

Write a **conclusion** for the **data** represented here.

.....

.....

.....

.....

State what the word **adaptation** means.

.....

.....

Label on the diagram **adaptations** a polar bear has to help it survive in the cold:



Define the following key words.

Ecosystem	
Habitat	
Community	
Population	

Describe what **inherited characteristics** are and give at least 3 examples.

.....

.....

.....

Explain why there is **inherited variation** between members of the same **species**?

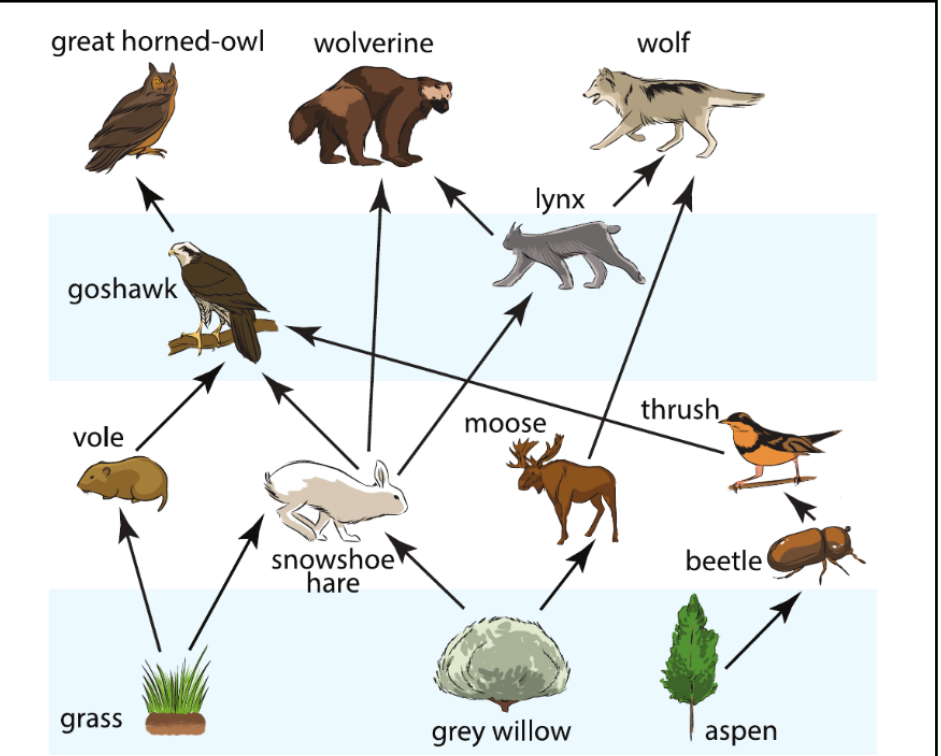
.....

.....

.....

Give an example of **environmental variation**.

.....



Write out a **food chain** from the **food web** above

Add the following labels:
Producer, consumer, carnivore, herbivore, top predator.

Describe what would happen in the **food web** above if all the moose suddenly died.

.....

.....

.....

State 3 **resources** animals **compete** over:

- 1.
- 2.
- 3.

State 3 **resources** plants **compete** over:

- 1.
- 2.
- 3.

Why are organisms in a food web **interdependent**?

.....

Complete the table by adding examples of adaptations to **daily** and **seasonal changes**:

Daily Changes	Seasonal Changes
<ul style="list-style-type: none"> • • • 	<ul style="list-style-type: none"> • • •

There are 100 000 blades of grass, 500 grasshoppers, 5 frogs and 1 rattlesnake in an **ecosystem**. Draw the **pyramid of number**:

Describe what the **pyramid of biomass** here shows.

.....

.....

Explain why not all **energy** gets passed on in a **food chain**.

.....

Explain the problems of using **poisons** like **pesticides** in ecosystems? Why might happen?

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

State where the **energy** initially comes from in all **food chains**.

.....

Describe what would happen in an ecosystem if the **prey** numbers started to increase.

.....

.....

.....

Why are some poisons referred to as **persistent**?

.....

Rate the following on how well you think you can do them:



I can...

- Recall what a species is.
- Describe variation as continuous or discontinuous.
- Present information as bar charts and scatter graphs.
- Identify relationships using scatter graphs.
- Identify and describe some adaptations for different habitats.
- Describe how inherited variation is caused.
- Identify causes of environmental variation.
- Describe adaptation to daily and seasonal changes.
- Split text into paragraphs.
- Give paragraphs a structure.
- Describe ways in which organisms affect their habitats and communities.
- Describe how organisms compete.
- Use a food web to make predictions.
- Use pyramids of numbers to describe how energy is lost in a food chain.
- Explain why pesticides need to be used carefully.