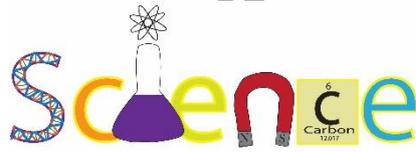


Firrhill High School



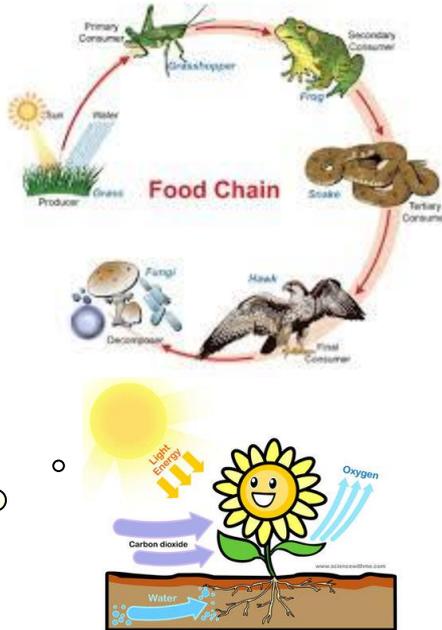
B1: Ecology

Effective Contributors

Responsible Citizens

Successful Learners

Confident Individuals



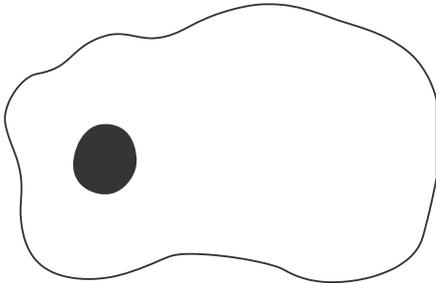
Homework	Due	Comment
<i>Homework 1</i> Animal & Plant Cells		
<i>Homework 2</i> The Environment		
<i>Homework 3</i> Food chains & webs		
<i>Homework 4</i> Endangered Species		



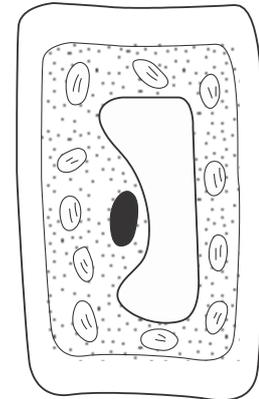
1. Animal & Plant Cells



1. a) Draw lines from the words in the box to the correct part of each cell. The words can be used more than once.



- cell wall
- cell surface membrane
- chloroplasts
- cytoplasm
- nucleus



This is _____ cell

This is _____ cell

b) in the blank space in the sentence underneath each diagram, fill in the words **a plant** or **an animal**.

2. Draw lines from the parts of cells to their functions.
The first one is done for you.

Part of cell

Function

Cell surface membrane	Tells the cell what to do
Chloroplasts	Keeps the cell together and controls what goes into and out of the cell
Nucleus	A jelly-like substance in which many of the cell's activities happen
Cell wall	A storage space filled with sap
Cytoplasm	Green discs that allow the plant to make food by photosynthesis
Vacuole	Supports the cell

I CAN...

- Name the parts of cells and describe their functions



2. The Environment



1.

a) Why is sampling an environment a useful tool for scientists?

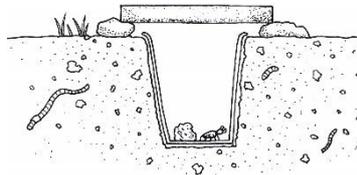
b) What does the word 'environment' mean?

c) Label each picture and state what organism it is best for sampling.



This is a _____.

It is used to collect _____.



This is a _____.

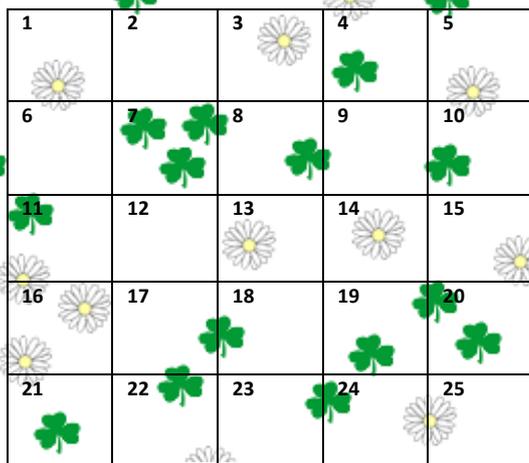
It is used to collect _____.



This is a _____.

It is used to collect _____.

2. A quadrat is another tool used to sample an environment.



a) Chose four boxes and count the number of daisies in each box.

Box __	__ daisies

b) Calculate the average number of daisies.

$$\text{Average} = \frac{\text{total number of daisies}}{\text{number of boxes}}$$

$$\text{Average} = \text{_____} \div \text{_____}$$

$$\text{Average} = \text{_____ daisies}$$

c) Give one **biotic** factor that could affect the number of daisies growing in a field.

d) Give one **abiotic** factor that could affect the number of daisies growing under a tree.

I CAN...

- Give examples of biotic and abiotic factors
- Collect & analyse data

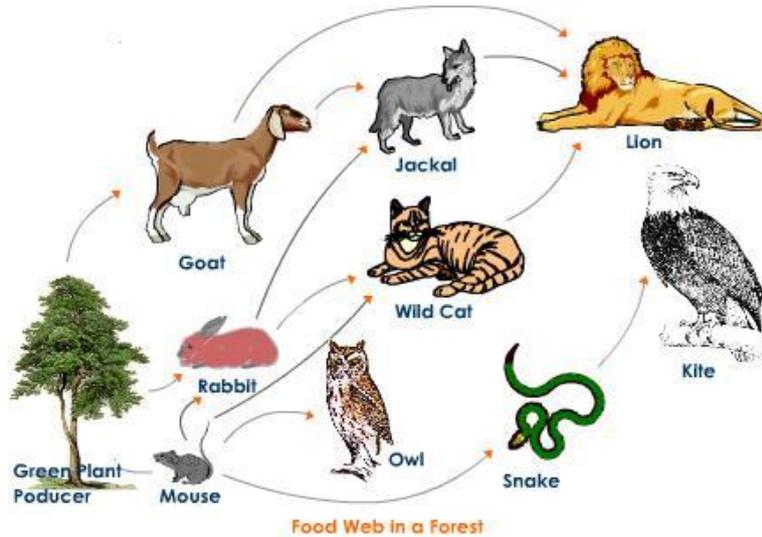


3. Food Chains & Food Webs



1. Use the food web above to make TWO different food chains.

(all spaces must be filled in)



Food chain 1

_____ → _____ → _____ → _____

Food Chain 2

_____ → _____ → _____ → _____

2. What do the arrows in a food chain show?

3. What is a producer?

4. From the food web above, name:

i) A prey of the wild cat _____

ii) A producer _____

iii) A predator of the shrew _____

iv) A carnivore _____

5. After a very stormy winter there were less trees. How do you think this would affect the other animals in the food web? Try to explain your answer.

I CAN...

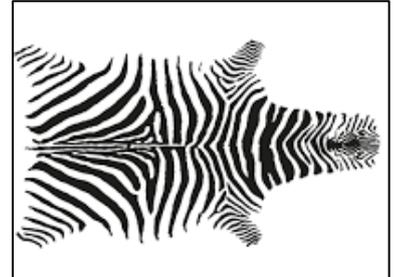
- Use scientific terms to discuss food chains and webs.
- Understand how organisms are all linked in a food web.



4. Endangered Species



1. Label each example below to show the different ways that humans have caused different animals to become endangered.



Animals are _____ by humans.

Animal _____ are destroyed by humans.

_____ caused by humans makes the environment hotter.

Animals are _____ for their skins or horns by humans.

2. Using a computer (either at home or in school) research one animal that is endangered and complete the fact file about it.

Endangered Animal Name:

Endangered Animal Drawing:

Endangered Animal Habitat:

Reason for Animal Endangerment:
