

Why is it important to classify species into groups?

State the difference between a vertebrate and an Invertebrate and give one example of each.

Describe one similarity and one difference between a fern and a moss:  
Similarity:



Difference:

Describe what biomagnification is:

Below is a food pyramid. Please label: Producer, primary consumer, secondary consumer, tertiary consumer and top predator. Which species are herbivores?

Why are there less top predators than other species?

## 7.10 Ecological Relationships

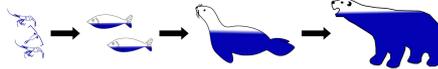
Below is a diagram of a food chain. What is the main difference between a food chain and a food web?

Add the following species to make this food chain into a food web: Rabbit, berries, frog, ladybird, tit, fox  
Draw the food web here:

Describe a practical we could do to survey the different types of plants in the field grass:

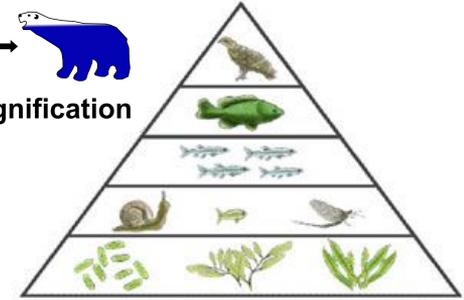
Explain why we shouldn't count all the plants on the entire field?

Look at the food web you have drawn to the left: If the entire population of mice were removed from this ecosystem how would it be affected?



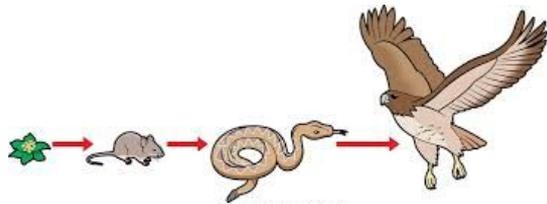
Contaminant Levels

**Biomagnification**

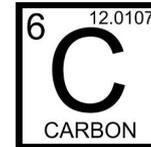
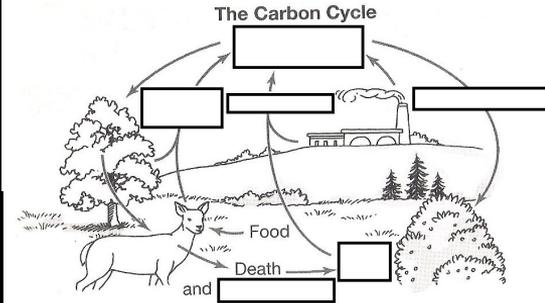


Explain why the carbon cycle is essential for all life on earth

Label the diagram below:



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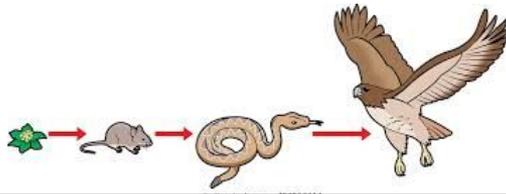
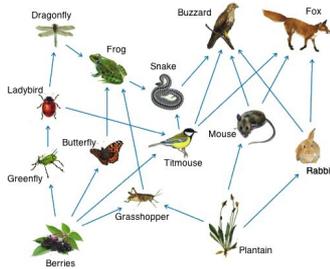
Why is it important to classify species into groups?  
**It makes these species much easier to study as you already have certain information about them**

State the difference between a vertebrate and an invertebrate, and give one example of each.  
**A vertebrate has a backbone and an invertebrate does not. Vertebrate- Dog, Invertebrate- Worm**

## 7.10 Ecological Relationships

Below is a diagram of a food chain. What is the main difference between a food chain and a food web?  
**A food chain only follows one flow of energy, while a food web follows multiple flows of energy**

Add the following species to make this food chain into a food web: Rabbit, berries, frog, ladybird, tit, fox  
 Draw the food web here:



Describe one similarity and one difference between a fern and a moss:  
 Similarity:  
**They both reproduce by spores, both live in damp conditions**  
 Difference:  
**Ferns have larger more well-developed leaves than mosses**

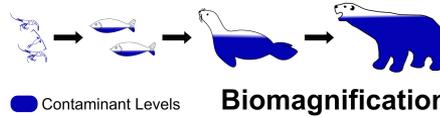
Describe a practical we could do to survey the different types of plants in the field grass.

- **Use quadrats**
- **We could count the types of plants in each 1x1 quadrat**
- **Create an average to estimate what could be found on the rest of the field**

Explain why we shouldn't count all the plants on the entire field?  
**Too time consuming**

Look at the food web you have drawn to the left: If the entire population of mice were removed from this ecosystem how would it be affected?  
**The eagle and fox would each lose a food source, meaning more stress would be put on the tit, rabbit and snake populations to provide food. These population numbers would go down meaning there would be an increased frog population as no other species eat them. A larger frog population would lead to less prey for the frog.**

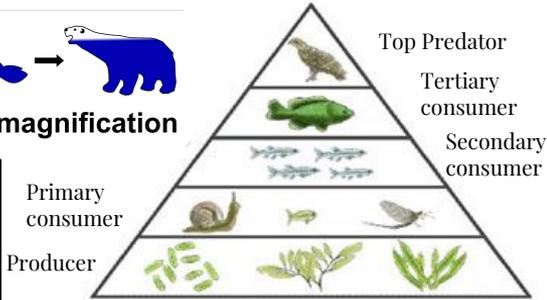
Describe what biomagnification is:  
**Biomagnification is the accumulation of toxins in an organism. This increases as you move up the food chain. Toxins may include plastic, pesticides or other chemicals**



Explain why the carbon cycle is essential for all life on earth  
**Carbon is exchanged, or "cycled" among Earth's oceans, atmosphere, ecosystem, and geosphere. All living organisms are built of carbon compounds. It is the fundamental building block of life and an important component of many chemical processes**

Below is a food pyramid. Label: Producer, primary consumer, secondary consumer, tertiary consumer and top predator.  
**Which species are herbivores? Snail, smallest fish, dragonfly**

Why are there less top predators than other species?  
**Because energy is lost as heat or other at every level.**



Label the diagram below:

