

Ecological relationships and classification

Lesson 4 - Impacts on Food Webs

Biology - Key Stage 3

Miss Lewis



Task

Dandelions → Rabbits → Foxes → Lions

Use the words **increase** and **decrease**.



Are these statements true or false?

If false, rewrite the statement so it is correct.

1. Insecticides are used to kill weeds.
2. Small amounts of toxic substances can be absorbed by plants.
3. The toxins are easily broken down.
4. The toxins are passed up the food chain.
5. The top predator is affected the worst.
6. The buildup of toxins along a food chain is called bioaccumulation.
7. There is a decreasing concentration of toxins with increasing trophic levels.



Task

Scientists measured the concentration of the insecticide in three animals and a microscopic plant called *Chlamydomonas*.

The food chain for these four organisms is shown below.

Chlamydomonas > *Daphnia* > fish > heron

In the food chain above, the heron contained the highest concentration of insecticide. Explain why. (3 marks)

Keywords: absorb, eat, insecticide, concentrated, broken down, builds up, bioaccumulation

