



Identify the trophic levels on food chains

Task 1. The diagram below shows a food chain in a field.



Grass



Rabbit



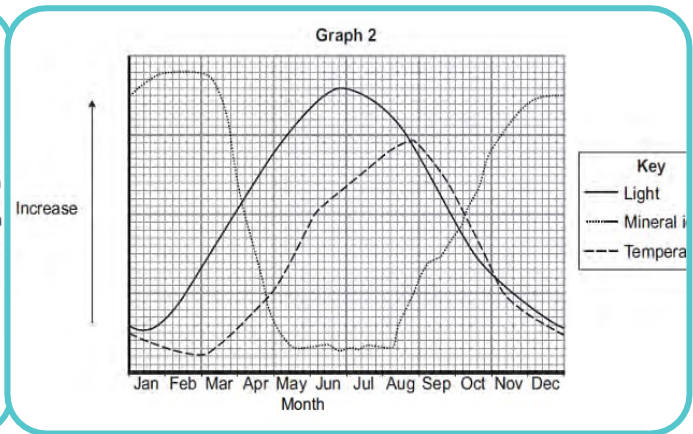
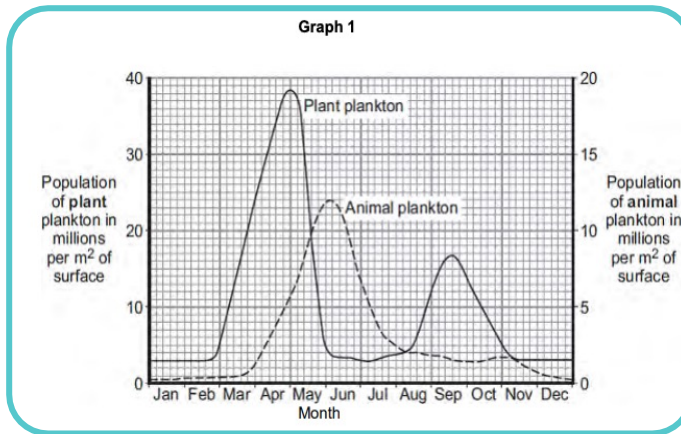
Fox

- (a) Name one consumer shown in the diagram above: _____
- (b) Name one carnivore shown in the diagram above: _____
- (c) What is another name for a carnivore in a food chain? _____
- (d) What is the name for a predator that has no predators? _____
- (e) A disease kills most of the foxes in the field. Suggest why the number of rabbits in the field may then increase:

- (f) What is the name given to all the rabbits in the field shown in the diagram above?
 Tick the correct one.
 - Community
 - Ecosystem
 - Population
 - Territory
- (g) Abiotic factors can affect the food chain. Wind direction is one abiotic factor. Name one other abiotic factor.



Task 2. Plankton live in the sea. Animal plankton eat plant plankton. Graph 1 shows how the populations of the plankton change through the year in the seas around the UK. Graph 2 shows changes in some of the conditions in the upper layers of the sea around the UK.



(A) The population of plant plankton increases between February and April. Suggest one reason for the increase. Explain your answer.

(B) The population of animal plankton changes between April and July. Suggest explanations for the changes.

(C) The concentration of mineral ions changes between February and December. Suggest explanations for the changes.
