

Nova's Nocturnal Food Chain Challenge

Learning objective: To identify and construct food chains, identifying producers, predators, and prey within a UK habitat.

Nova the Owl has been observing the wildlife in the local woodland. Look at the living things provided in the word bank. Your task is to sequence them into three correct food chains. Remember, every food chain must start with a producer (a plant) and show the direction of energy flow using arrows (e.g., Plant → Animal).

Word bank: Oak tree · Caterpillar · Blue tit · Sparrowhawk · Grass · Rabbit · Fox · Algae · Water flea · Stickleback fish

1. 1. Sequence the woodland creatures: Oak tree, Sparrowhawk, Caterpillar, Blue tit. Draw the chain using arrows. (2 marks)

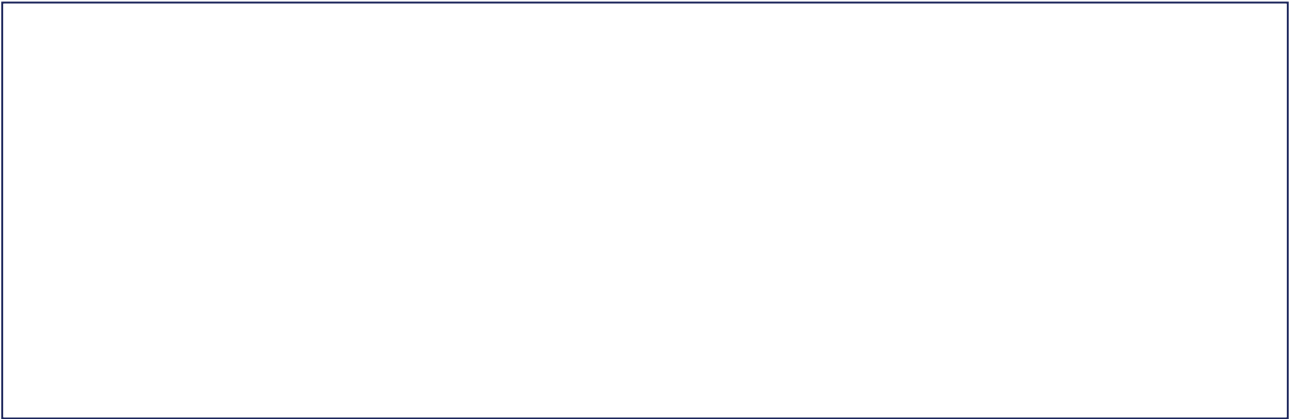
2. 2. Sequence the meadow creatures: Fox, Grass, Rabbit. Draw the chain using arrows. (2 marks)

3. 3. Sequence the pond creatures: Water flea, Algae, Stickleback fish. Draw the chain using arrows. (2 marks)

4. 4. In the first food chain, which organism is the producer and which is the apex predator? (2 marks)

5. 5. What would happen to the population of rabbits if all the grass in the meadow disappeared? Explain your reasoning. (3 marks)

Draw: Draw a balanced food web showing how these three chains might overlap. Include at least one animal that eats two different things from your list.



Extension challenge: Research a food chain in a different habitat, such as a desert or a rainforest. Write it out and label the producer, primary consumer, and secondary consumer.