

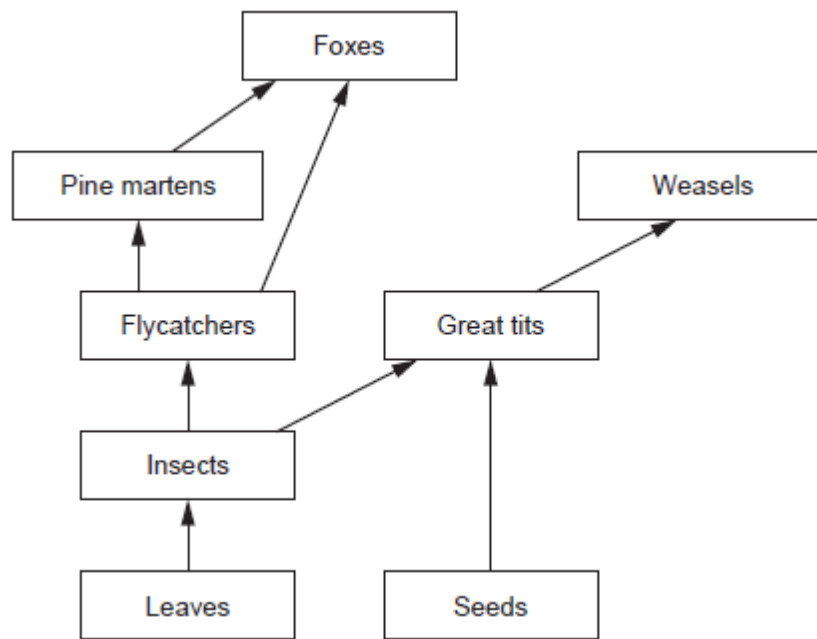
GCSE Biology A (Gateway)

J247/04 Biology A B4-B6 and B7 (Higher Tier)

Question Set: 16

1

The diagram shows part of a food web from a woodland.



(a) (i) Great tits are described as both primary consumers and secondary consumers.

Explain why.

[2]

(ii) Foxes are described as both predators and competitors of pine martens.

Explain why.

[2]

(iii) Which organism in the food web occupies the second trophic level?

[1]

(b) Great tits and flycatchers are both birds.

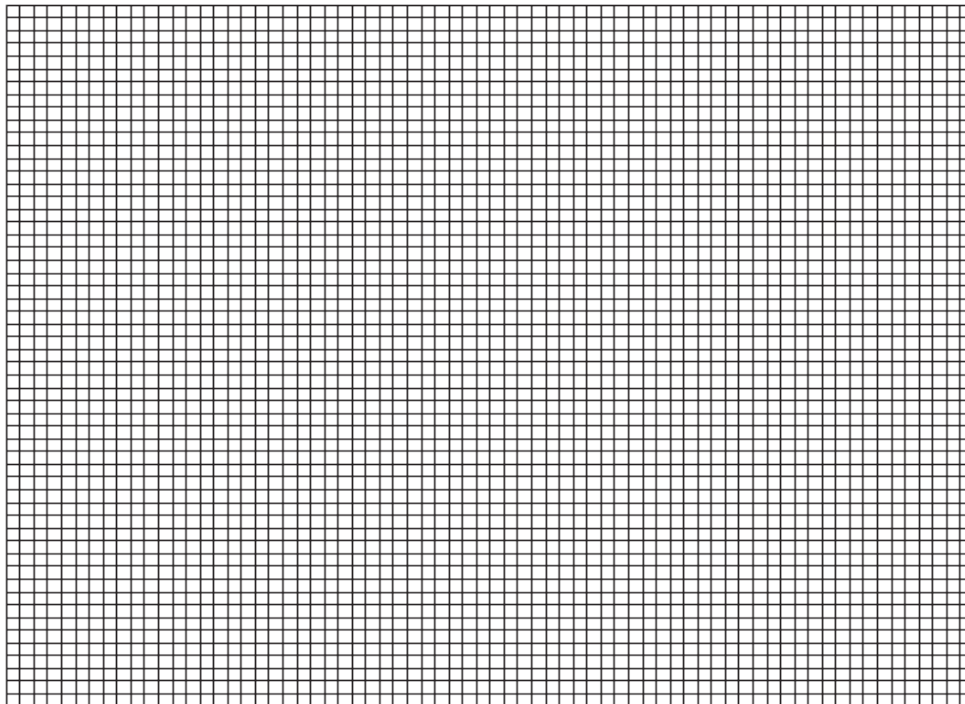
In a conservation project, scientists have built boxes for the birds to nest in. The scientists fixed the boxes on trees at different heights.

The table shows how many birds of each type used the boxes for nesting.

Height of bird box above the ground (m)	Number of bird boxes used	
	By great tits	By flycatchers
1	1	6
2	7	5
4	10	6

(i) Draw a **bar chart** on the graph paper to show the scientists' results.

The results for great tits and flycatchers should be on the same axis.



(ii) The food web shows:

- Weasels feed on great tits
- Pine martens feed on flycatchers.

Weasels live on the ground but pine martens live in trees.

How can this be used to explain the results of the scientists' investigation?

[3]

Total Marks for Question Set 16: 12

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