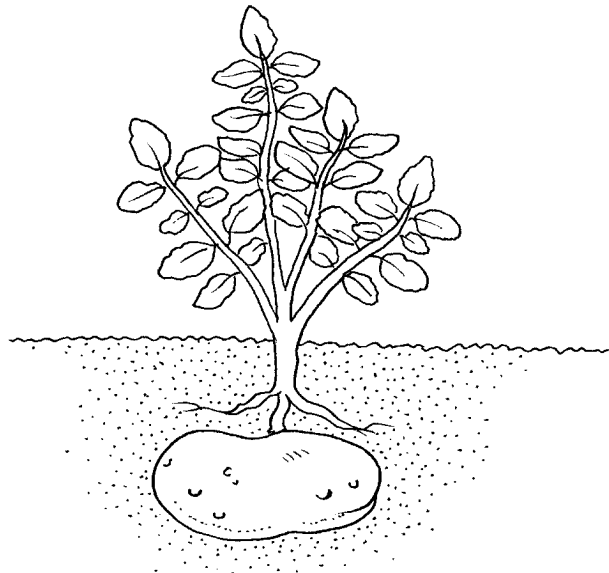


Name \_\_\_\_\_

Class \_\_\_\_\_

- 1 The drawing shows a potato plant.



- a The plant uses light energy to produce glucose. What is the name of this process? \_\_\_\_\_

[1 mark]

- b The plant converts glucose into starch for storage in the potato. What does the starch provide for people who eat potatoes in their diets?

\_\_\_\_\_

[1 mark]

The potato that we eat is a special storage organ in the plant. We can eat other parts of plants.

c Tick one box for each food to show which part of the plant it is.

Tomato



fruit

stem

flower

leaves

Lettuce



fruit

stem

flower

leaves

Broccoli



fruit

stem

flower

leaves

[3 marks]

- 2 a Crops that grow in fields with weeds often have poor yields, because the weeds compete with the crop plants.

Write down **two** things that the weeds might compete for.

i \_\_\_\_\_

ii \_\_\_\_\_

[2 marks]

Farmers can use selective herbicides. One kind of selective herbicide only kills plants with broad leaves.

- b Which of these plants would a selective herbicide kill? Tick the boxes by the plant (or plants) that would die.



rye grass



hazel

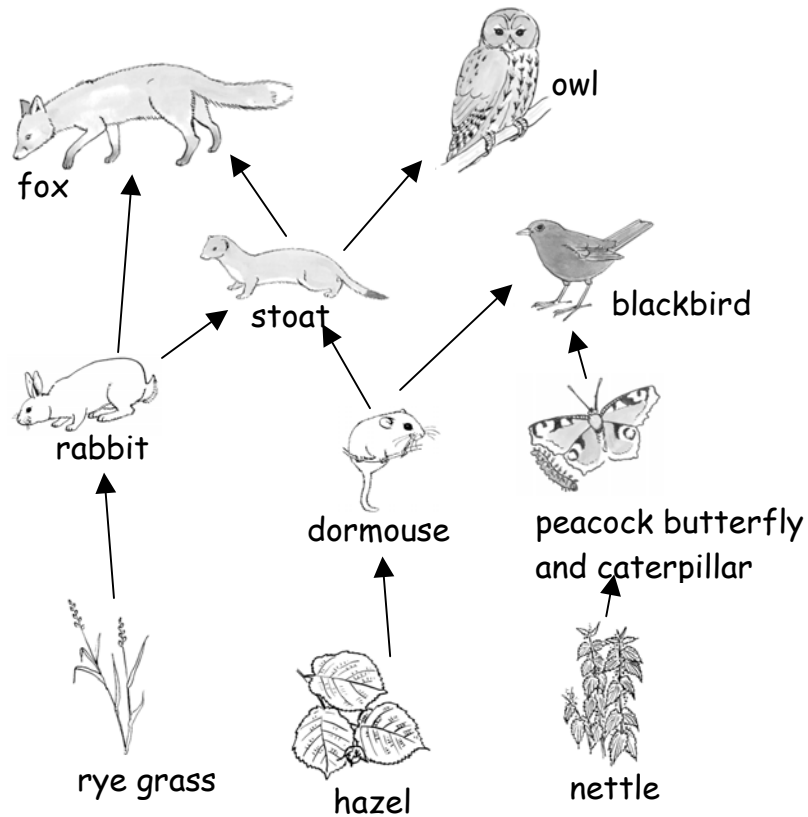


nettles

[1 mark]

**9D****End of Unit Test (Levels 3-5) (continued)**

The food web below shows some organisms that might live around a hedge.



- c Explain why spraying herbicide on the hedge would reduce the number of stoats around the hedge.

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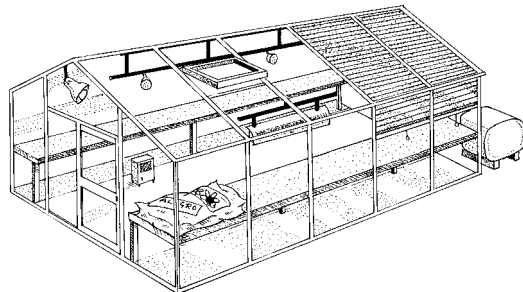
[3 marks]

- 3 There are a number of ways to improve the yield of wheat crops.  
Draw lines to match each action with the reason why it will improve the yield.  
Draw **two** lines only.

Action	Reason
Use insecticides	to kill plants
	to kill weeds but not crop plants
	to add mineral salts to the soil quickly
Use chemical fertilisers	to add mineral salts to the soil slowly
	to kill pests
	to add protein to the soil

[2 marks]

- 4 Commercial greenhouses can be used to grow crops all year round.



Lettuces do not grow in the garden in winter. Explain why each of the following features allows plants like lettuces to grow in a greenhouse in the winter.

- a artificial lighting

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[1 mark]

- b controlled temperature

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[1 mark]