**D Plants for food**

1. In the following list, cross out those substances that are not produced by photosynthesis.
   - oxygen
   - glucose
   - carbon dioxide
   - nitrates
   - water

2. Complete these sentences by crossing out the words that are wrong.
   a. A plant is an example of a **producer/consumer**.
   b. Animals that eat plants are called **herbivores/carnivores**.
   c. Starch turns **green/black** when iodine solution is added.
   d. Animals that eat other animals are called **predators/prey**.

3. a. Complete the following food web by adding arrows to show the transfer of energy within the web.
   
   ![Food Web Diagram]

   b. Write down two organisms in the food web that are competing with each other.

   
   Human and cow

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4 Complete these sentences by crossing out the words that are wrong.
   a. Plant growth increases in the **light**/dark.
   b. Plant growth increases in the **cold**/warmth.
   c. Plant growth **needs**/does **not need** carbon dioxide.
   d. Plant growth **needs**/does **not need** nutrients.
   e. Plants growth **needs**/does **not need** water.

5 Plants need various nutrients to be healthy and grow well. Draw lines to match each nutrient with its function.

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>potassium</td>
<td>helps to make roots</td>
</tr>
<tr>
<td>nitrogen</td>
<td>helps to make protein</td>
</tr>
<tr>
<td>phosphorus</td>
<td>helps to make chlorophyll</td>
</tr>
<tr>
<td>magnesium</td>
<td>helps to make flowers</td>
</tr>
</tbody>
</table>

6 Complete the following sentences. Choose from the words below to fill the gaps. You may use each word once, more than once, or not at all.

Fertilisers are used by farmers to __________________________ the yield of their crops. Although fertilisers are __________________________ for the farmer to buy, the increase in yield will more than pay for the cost of the fertiliser.

Farmers need to know how much __________________________ to use. Too little will not increase the __________________________ , and too much will just be __________________________ .

7 Draw in lines to match each process with the correct explanation.

<table>
<thead>
<tr>
<th>Process</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>organic farming</td>
<td>kills insects that use the crop for food</td>
</tr>
<tr>
<td>use of pesticide</td>
<td>provides the crop with nutrients</td>
</tr>
<tr>
<td>use of weedkiller</td>
<td>produces crops without using artificial chemicals</td>
</tr>
<tr>
<td>use of fertiliser</td>
<td>kills plants that compete with the crop for resources</td>
</tr>
</tbody>
</table>
**Plants for food (continued)**

8 Reshma is out walking. She finds a dead kestrel. It has been killed by pesticides. Which of the following statements is most likely to be correct?

A. The kestrel ate some pesticide found on a farm.

B. The kestrel was sprayed with insecticide by a farmer.

C. The kestrel ate lots of small mammals that each contained a small amount of pesticide.

The correct answer is _______.

9 Richard and Jade are farmers. They know that the yield depends on how they plant the crops. Complete the paragraph by crossing out the wrong words.

Plants compete with each other for **nutrients**/soil that they need for growth. They also remove **oxygen**/carbon dioxide from the air. If Richard and Jade plant their crop too close together, the smaller plants will not be able to get enough **light**/sound and will not grow as well. In **dry**/wet weather, Richard and Jade must **water**/hoe their crop to ensure a good yield.

10 Look at the diagram of a farm food web.

The farmer decides to spray the crop with a pesticide. Underline any statements below that are true.

- The number of carrot fly will increase.
- The number of small birds will increase.
- The number of rabbits will increase.
- The number of falcons will increase.