

# How does a plant grow?

Use your knowledge and understanding of plants and photosynthesis to explain how a plant grows from a seed.

**Task:**

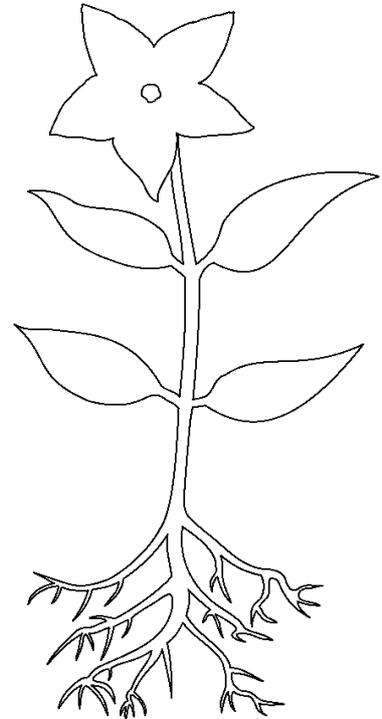
Draw a poster to show how a plant grows.

**Top Tips:**

- Use your knowledge and understanding of photosynthesis to explain the process.
- Use arrows and "close ups" to describe or explain photosynthesis.
- Try and include the key words below.

**Key words:**

biomass, carbon dioxide, chlorophyll, leaf, minerals, photosynthesis, root hair cell, roots, stem, water



**Level ladder:**

What is your target level? Use the level ladder to help you reach it:

To get grade	You might have:
3	<ul style="list-style-type: none"> <li>• Drawn a plant.</li> <li>• Labelled the leaf, root, flower and stem.</li> <li>• Stated the job of some major organs.</li> <li>• Listed what plants need to grow.</li> </ul>
4	<ul style="list-style-type: none"> <li>• Drawn a plant, labelling the major organs.</li> <li>• Stated the job of each organ.</li> <li>• Listed what plants need to grow healthily.</li> <li>• Simply described what photosynthesis is.</li> </ul>
5	<ul style="list-style-type: none"> <li>• Drawn a plant, labelling the major organs and describing the job of each organ.</li> <li>• Drawn a cell in the leaves.</li> <li>• Labelled some parts of a plant cell.</li> <li>• Explained how the plant gets the substances it needs for photosynthesis.</li> <li>• Described an energy transfer involved in photosynthesis.</li> <li>• Written a simple word equation for photosynthesis.</li> </ul>

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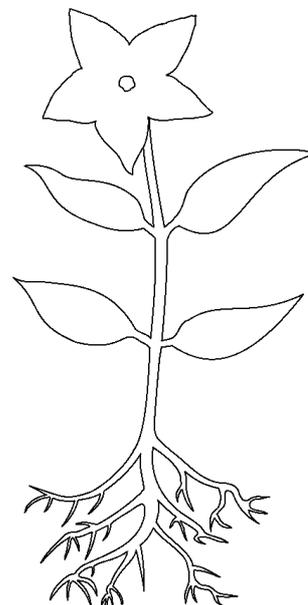
Use your knowledge and understanding of plants and photosynthesis to explain how a plant grows from a seed.

**Task:** Draw a poster to show how a plant grows.

**Top Tips:**

- Use your knowledge and understanding of photosynthesis to explain the process.
- Use arrows and "close ups" to describe or explain photosynthesis.
- Try and include the key words below.

**Key words:** biomass, carbon dioxide, chlorophyll, diffusion, leaf, minerals, photosynthesis, plant cell, root hair cell, roots, stem, stomata, transpiration, water



**Level ladder:** What is your target level? Use the level ladder to help you reach it:

To get grade	You might have:
5	<ul style="list-style-type: none"> <li>• Drawn a plant, labelling the major organs and describing the job of each organ.</li> <li>• Drawn a cell in the leaves.</li> <li>• Labelled some parts of a plant cell.</li> <li>• Explained how the plant gets the substances it needs for photosynthesis.</li> <li>• Described an energy transfer involved in photosynthesis.</li> <li>• Written a simple word equation for photosynthesis.</li> </ul>
6	<ul style="list-style-type: none"> <li>• Drawn a plant, labelling the major organs and explaining the job of each organ.</li> <li>• Drawn, labelled and explained how some of the cells in the roots and leaves are adapted to their jobs.</li> <li>• Explained how the mass of a plant increases as it grows.</li> <li>• Written the word equation for photosynthesis.</li> <li>• Explained how the substances for photosynthesis enter and leave the plant.</li> <li>• Explained how plants respire.</li> <li>• Explained the energy transfers involved with photosynthesis and respiration in plants.</li> </ul>
7	<p><i>Followed the instructions for level 6, but used detailed knowledge and understanding to describe and explain how the process of photosynthesis is related to plant growth, and:</i></p> <ul style="list-style-type: none"> <li>• Explained the word and symbol equation for photosynthesis.</li> <li>• Discussed the limitations to plant growth.</li> </ul>