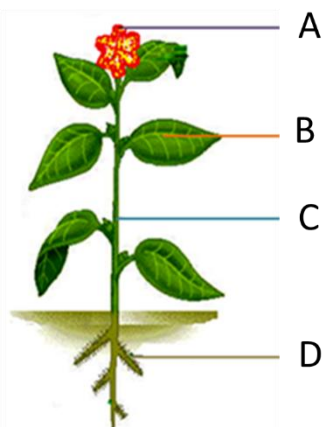
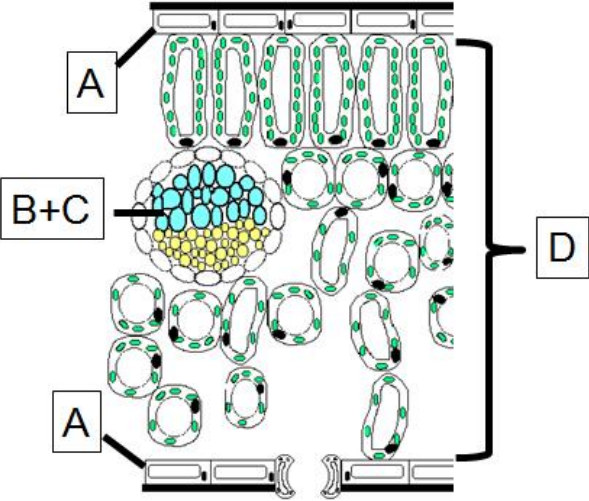


Year 8 Plants Fact Sheet

Plant organs	
<p>1. Label the plant organs</p> 	<p>A: Flower</p> <p>B: Leaf</p> <p>C: Stem</p> <p>D: Root</p>
2. Which organ makes seeds?	Flower
3. Which organ does photosynthesis to make food?	Leaf
4. Which organ supports the leaves?	Stem
5. Which organ gets water from the soil and holds the plant in the soil?	Roots
Photosynthesis	
6. Name the process plants use to make their food	Photosynthesis
7. Write the word equation for photosynthesis.	Carbon dioxide + water → Glucose + Oxygen
8. Name the organ in plants which does photosynthesis	Leaf
9. Which part of the plant cell does photosynthesis	Chloroplast
10. Where does the energy for photosynthesis come from?	Light
11. When do plants do photosynthesis?	When it's light
12. Name the green pigment which absorbs light	Chlorophyll
13. State 2 ways the plant uses the glucose it makes	<ul style="list-style-type: none"> • For energy (in respiration) • Stores it (as starch)
14. When do plants do respiration?	All the time

Leaf structure	
<p>15. Name the tissues in the cross section of the leaf (4)</p> 	<p>A = epidermis</p> <p>B and C = phloem (bottom) and xylem (top)</p> <p>D = mesophyll</p>
<p>16. What does the epidermis do?</p>	<p>Covers organs</p>
<p>17. What does the mesophyll do?</p>	<p>Photosynthesis</p>
Plant transport	
<p>18. What does the xylem do?</p>	<p>Transport water</p>
<p>19. What does the phloem do?</p>	<p>Transport sugar</p>
<p>20. Name the holes on the bottom of the leaf</p>	<p>Stomata</p>
<p>21. Which cells control the size of the stomata?</p>	<p>Guard cells</p>
<p>22. What do root hair cells do?</p>	<p>Absorb water and minerals from the soil</p>
<i>Extension</i>	
<p>23. Describe xylem cells</p>	<p><i>Dead, long thin cells, lignin in their walls</i></p>
<p>24. Describe phloem cells</p>	<p><i>Long thin cells, alive, sieve plates between cells</i></p>
<p>25. What do we call movement of water up the xylem?</p>	<p><i>Transpiration stream</i></p>
<p>26. What do we call movement of sugar solution in the phloem</p>	<p><i>Translocation</i></p>