

2.4 Looking at leaves

Questions pages 52-53

Name:Answer key	Grade 7A
Date: /5/2023	
What features do leaves have in contract the state of the state o	common?
Leaves are thin, broad and flat.	
They are green and contain chloroph	yll.
They have a network of veins.	
2. Why do leaves have these feature	es?
They are thin to allow easy passing of	of sunlight and gas exchange by diffusion.
They are broad and flat to give a larg	e surface area to absorb sunlight.
The chlorophyll absorbs sunlight/ Th	e veins transport water, sugar and nutrients.
3. What cells have you studies that a	are found in leaves?
Spongy cells/ Palisade cells.	
4 What do you notice about the size	of the leaves growing at different heights in the forest?
•	arge leaves whereas leaves on high trees are much
smaller	
5. Why is it important to the plants the	eat grow to these heights?
·	ch less light than those on tall trees; the large surface
area means they can absorb more lig	
area means they can assers mere ne	
6. What does this tell you about the	eaves?
Larger leaves contain more cholorop	hyll to absorb all the light that reaches them.
7. How do gases move in and out of	a leaf?
ū	leaf in daytime, and Oxygen (O ₂) moves out by













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For questions 8 and 9, complete the following table.

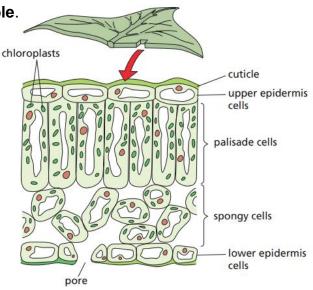


FIGURE 2.2.4c: Section through a leaf showing the different types of cell

Name of cell/ layer in the leaf	Funtion of the cell/ layer	Adaptations of cell	How do these adaptations allow the cell to carry out its functions?
Cuticle	Protects leaf from water loss	Made of wax	It is waterproof
Epidermis	Allows light to reach palisade cells	Thin and transparent	Light can pass through the cells
Palisade cells To absor	To absorb light	Found at the top of the leaf	Light doesn't have to travel far
		Cells are long and narrow	More cells are at the tpo of the leaf
		Contains many choloroplasts	To absorb as light as possible.
ligh To a	To absorb remaing light	Contain choloroplasts	To absorb all the remaining light
	To allow gases to pass in/out of the leaf	Large air spaces between the cells	To allow gas exchange









