

# Plants and Photosynthesis

## Lesson 5- Structure of the Leaf

Biology - Key Stage 3

Miss White



**Look at this leaf, or one of your own, and think about what features it has in order to help it catch as much sunlight as possible**

Jot down your ideas in this box



# Independent Task

1. What is the name of the cells which surround the stomata?
2. In which cells does photosynthesis take place?
3. Why does a leaf have a waxy cuticle?
4. Which gas diffuses into the leaf for photosynthesis?



# Match up task

4

Upper epidermis
Chloroplasts
Spongy cells
Waxy cuticle
Stomata
Palisade Cells
Guard cells

Organelle which is the site of photosynthesis
Waterproofs the leaf
Covering of the leaf, often waxy
Packed with chloroplasts
Allows for diffusion of gases through the leaf
Open and close the stomata
Openings on the underside of the leaf



## **Task 1- Describe two adaptations of a leaf**



Task 2- Explain how each adaptation helps the leaf carry out **photosynthesis**

**Here's an example to help:**

**Adaptation: Plants have flat leaves**

**Explanation: This helps them absorb more sunlight for photosynthesis**

