



# Looking at Stoma

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## Results

*Table 1. Top*

	1	2	3	Avg
Number	0	0	0	0

*Table 2. Bottom*

	1	2	3	Avg
Number	30	34	38	34

## Questions

1. *What type of leaf was used in the experiment?*

Ivy leaves

2. *Were stomata present on both sides of the leaf?*

We did not observe any on the top.

3. *Why were 3 readings taken?*

To improve the reliability of the results

4. *Was there a significant difference in the number of stomata on the top vs the bottom? Why?*

Yes there were an average of 34 on the bottom compared to an average of 0 on the top. This is because if they were on the top the sun would cause water to evaporate quicker dehydrating the plant.

5. *What is the function of stomata?*

To intake CO<sub>2</sub> and O<sub>2</sub> and absorb water.

6. *What is the function of the guard cells? When would they be closed*

To close the stomata when having them open would be detrimental to the plant. E.g when it is very hot and water would evaporate quickly from the leaves.

