

# GCSE Coursework.

## Ideas.

- The amount of water in leaves.
- The thickness of the stem.
- The number of leaves.
- Size of the roots.
- Temperature.
- The amount of leaves that are left on the stem.
- And finally the sizes of the leaves.

## AIM.

Our Aim is to find out if the number of leaves affects the water loss from the Pevit and the stem and leaves. I am going to keep everything the same except for the temperature and the water.

## Prediction.

I think that there will be an increase of the water loss. Only if I increase the number of leaves.

## Hypothesis.

I think that there will be an increase of the water loss because the water travels into the root and up the stem and on its way into the leaf.

After the water travelling into the stem and leave the water stays in the stem and leaves, The water stays in the leaf and then evaporates from the leaf cells and diffuses out through the stomata.

The more stomata there is the more transpiration there is. If there were more leaves there would be more evaporation from the leaf cells on bigger

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surface areas and there would be more water travelling and there will be more water loss.

### Decisions.

In my experiment I am going to increase the number of leaves because I have to find out how much water loss theirs been towards the leaf and, to find out how much stomata there is on the leaf, Basically I have to discover if there has been a change with the other leaves, By weighing it. The only way to get more stomata is if there is a big surface area on the leaf.

In my experiment I will keep th e same, the amount of water so it stays a fair test, secondly I am going to keep the temperature the same, the thickness of the stem the same, the length the same and finally the size of the leaf the same.

In my experiment I am going to measure the amount of water that there is in the test tube, and when the mass starts and the end of the mass and I am going to measure the temperature. I am going to measure the temperature by receiving a thermometer and then measuring it. I am going to do this so that I can find out if there has been a difference or not on the experiments that I have been doing.

I am going to work safely by doing the following things which are: by not eating the leaf and by not drinking the water that's in the test tube and if you touched the privet you would have to wash your h ands because it would poison.

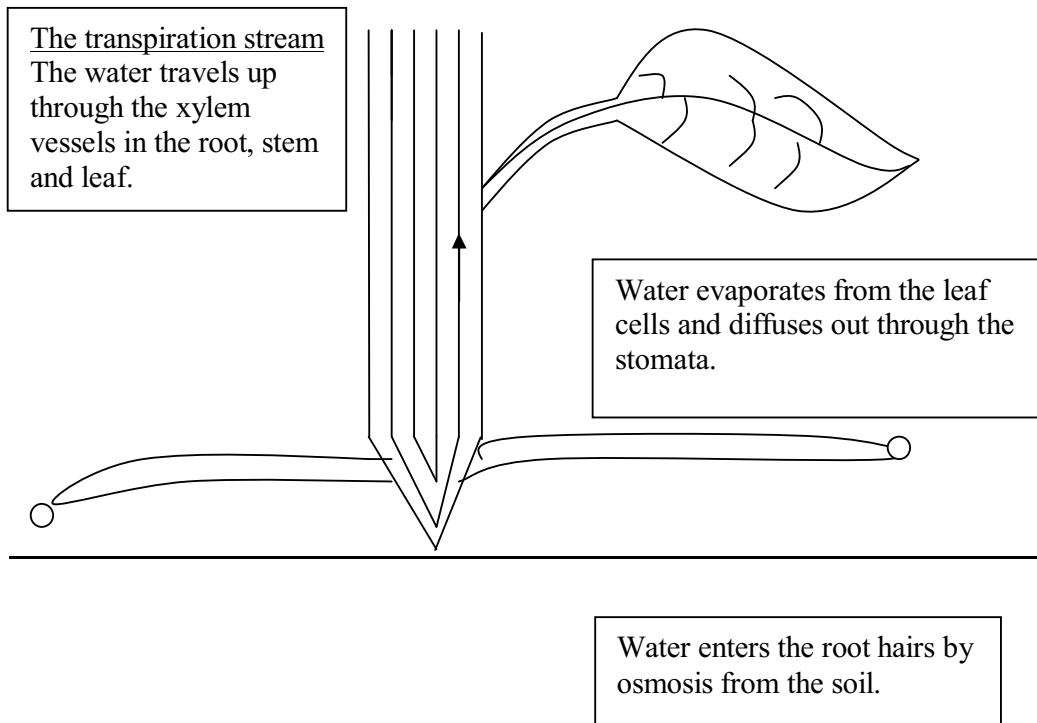
### Method.

- Firstly I got all the equipment that I needed.
- Secondly I will setup the experiment.
- Thirdly I will get the leaves that I need and cut the leaves off the stem.
- Then I will cut each leave so it can decrease by the number of times for example 5,4,3,2,1,0.
- Then I poured water into the test tubes.
- Then I poured a little bit oil into the test tubes.
- Fourthly I put the stems into the test tubes.
- Then I weighed each and everyone of the stems.
- Then finally I had recorded all the weighing that I did on the weighing system (weighing machine).

**EQUIPMENT.**

Test tubes  
Test tube racks  
Scissors  
Beakers  
Leaves

Oil  
Water  
Thermo meter  
Weighing machine.



**Conclusion.**

My graph shows that there has been a slight change between test 1 and test 2.