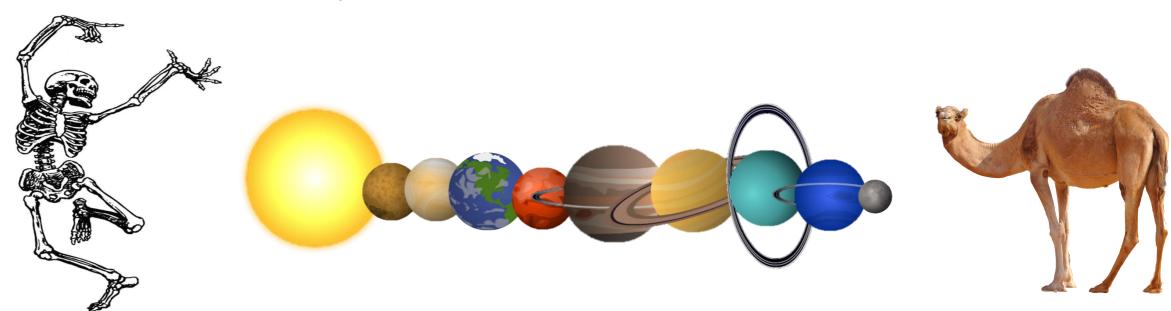


Grade 4 Science



Welcome to Grade 4 Science!



What will we learn today?

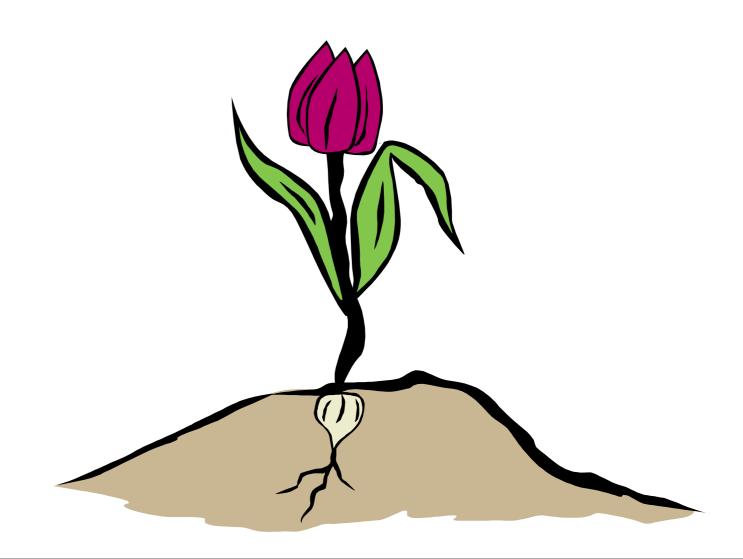
The parts of a plant and their functions.

What plants need to grow.

How to do a seed growth investigation.



The parts of a plant

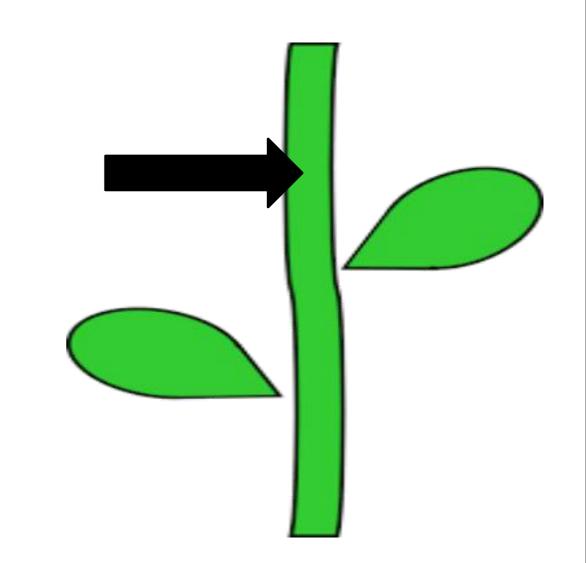


1. Root



1. Root

2. Stem

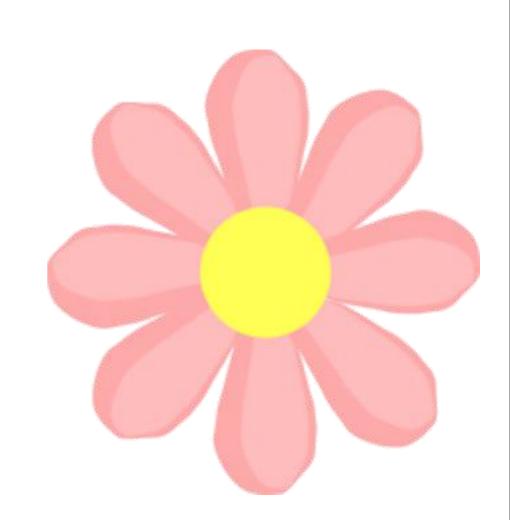


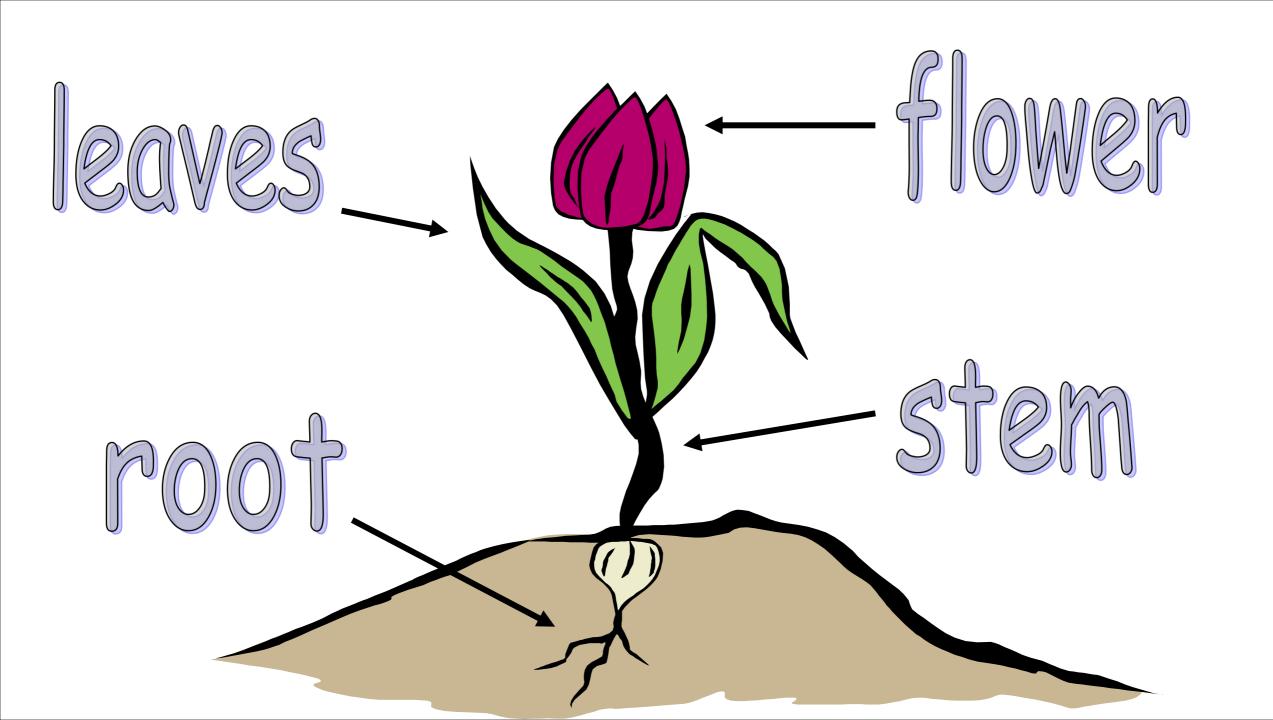
- 1. Root
- 2. Stem
- 3. Leaves*

*1 leaf / 2+ leaves

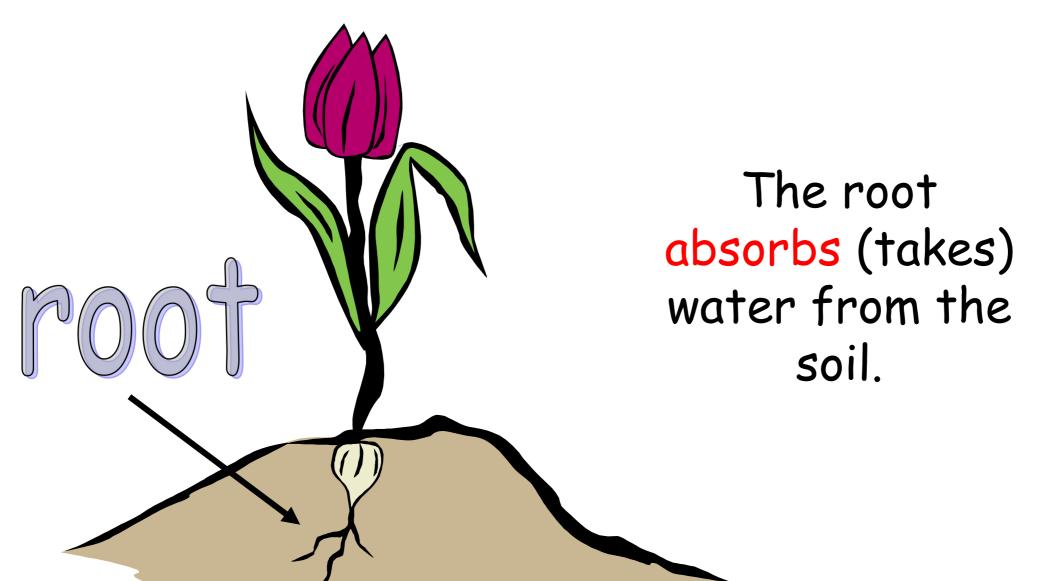


- 1. Root
- 2. Stem
- 3. Leaves
- 4. Flower

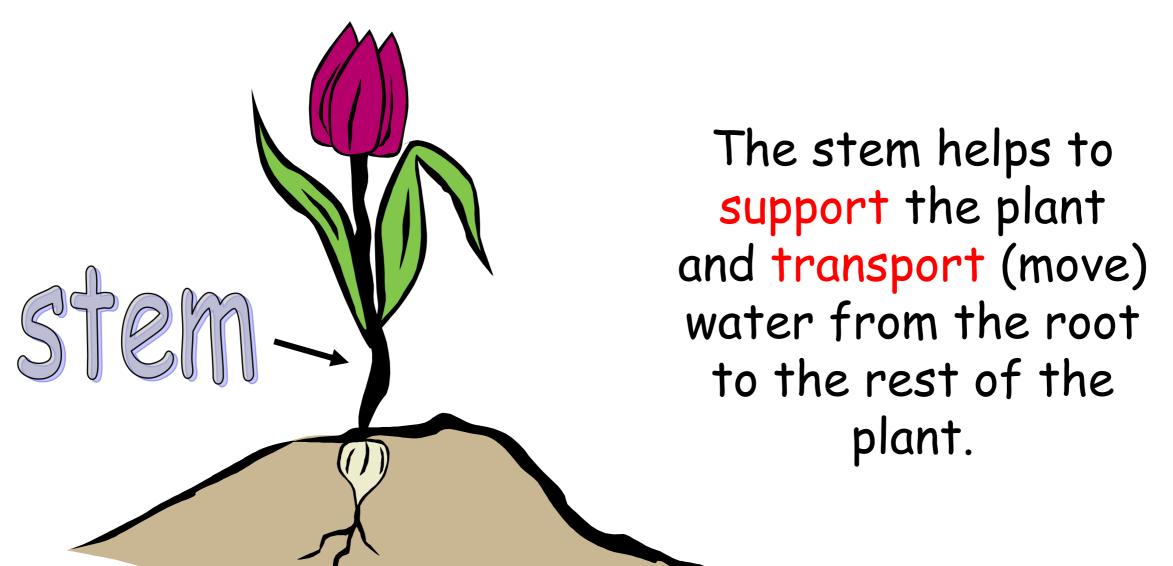




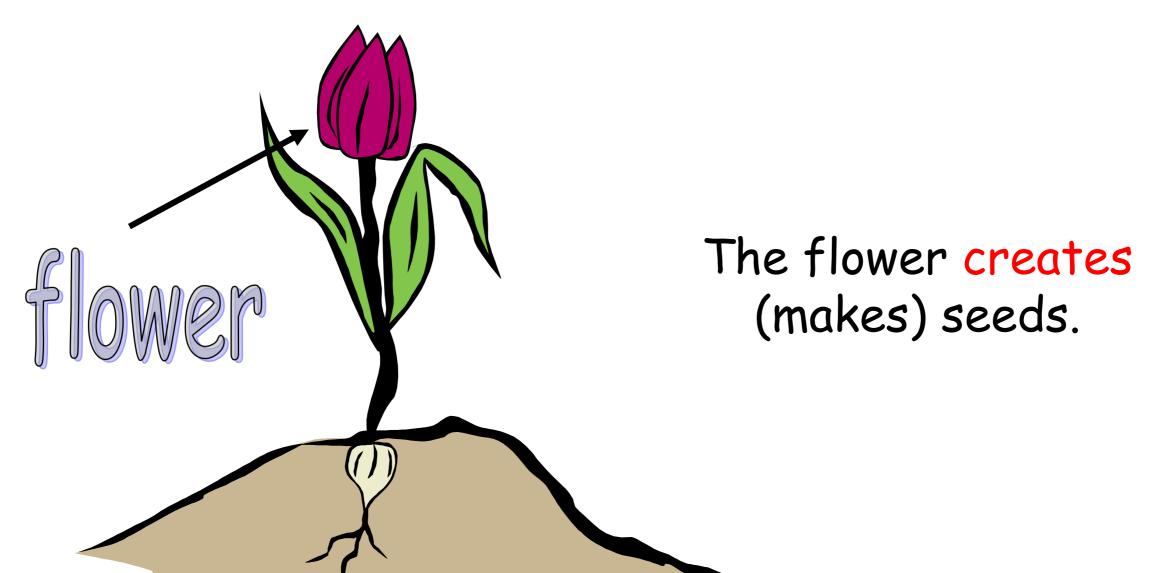
What is the <u>function</u> of the root?



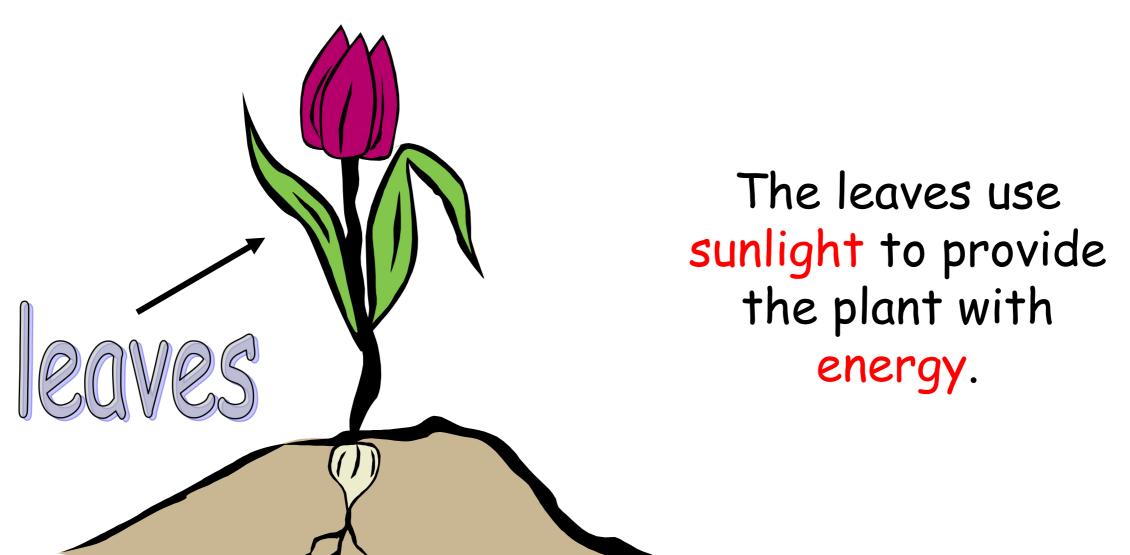
What is the <u>function</u> of the stem?



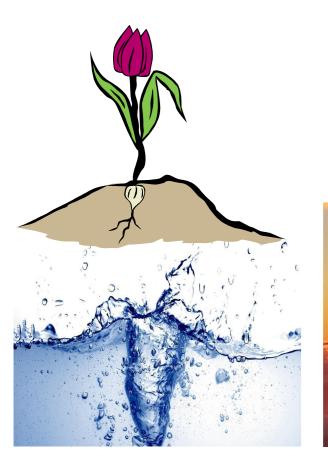
What is the <u>function</u> of the flower?

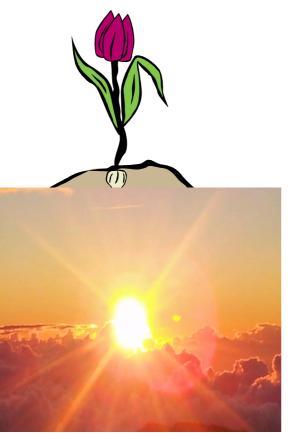


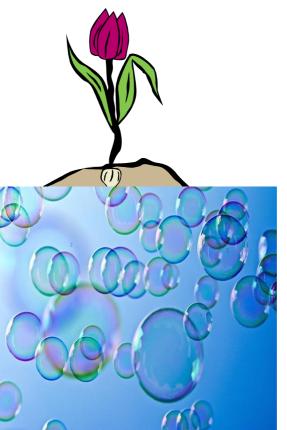
What is the <u>function</u> of the leaves?



What do plants need to grow?







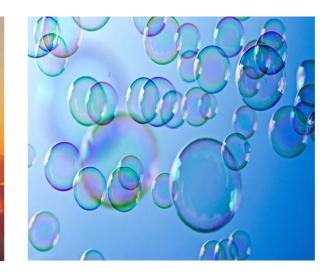


Plants need many things to grow.

Can you name them?



water





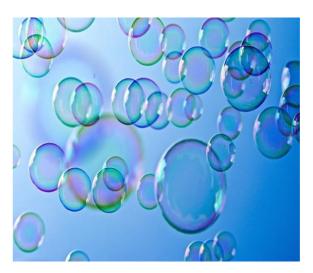
sunlight

soil

These are the four most important things that a plant needs to grow.









water

sunlight

air

soil

We can also add space.









Some students want to do an investigation.







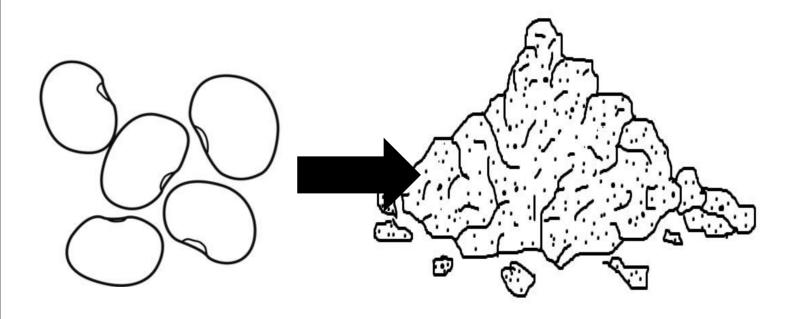
Looking at the effects of water





Looking at the effects of water

They are going to put some seeds in soil.



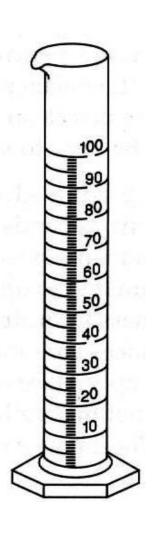




Looking at the effects of water

Then they will give them different amounts of water.



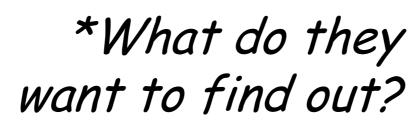






Looking at the effects of water

What is the aim* of the students?







Looking at the effects of water

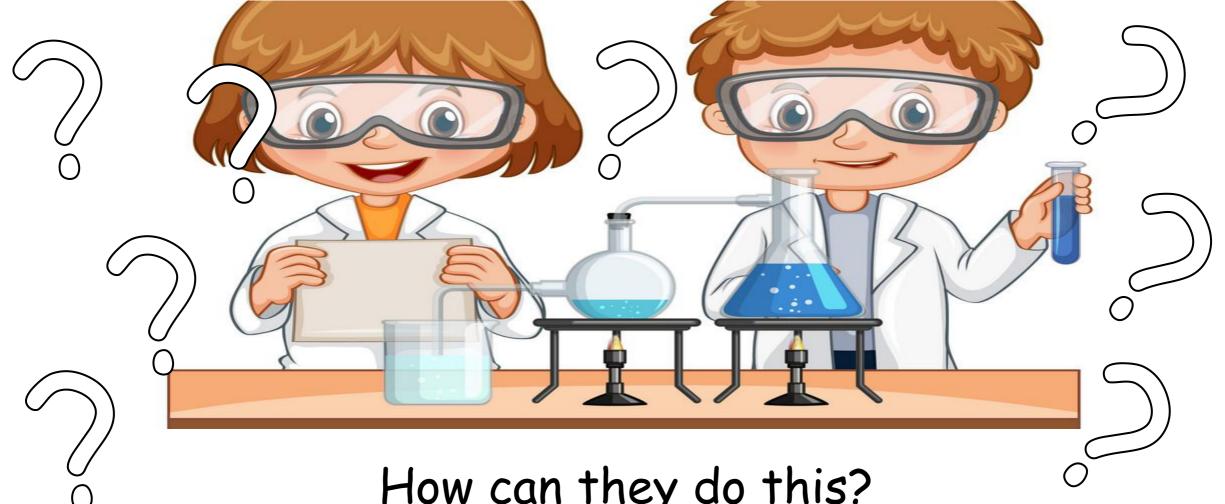
Aim

To find out how the amount of water affects the growth of the seeds.





Looking at the effects of water



How can they do this?



Looking at the effects of water

They need a method*.

*A step by step list of what to do in the investigation.





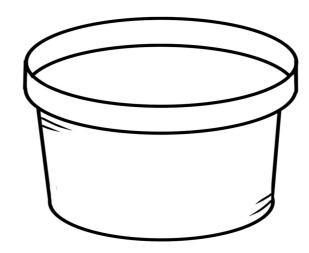


Looking at the effects of water

Method

First, fill each container with the same amount of soil.







Looking at the effects of water

Next, label the containers: 1, 2 and 3.







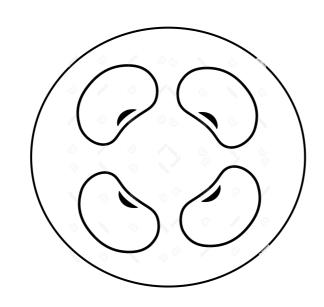






Looking at the effects of water

After that, put four seeds in each container, equally spaced.





Looking at the effects of water

Finally, the students will leave the seeds in a safe place for three weeks.









Looking at the effects of water

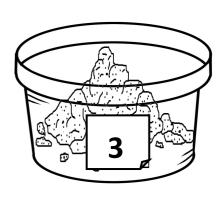
Plant 1 will **not** be watered.



Plant 2 will be given 100ml of water only once.



Plant 3 will be given 100ml of water once every week.







Looking at the effects of water

When we do an investigation, we must always think about a







Looking at the effects of water

But what is a fair test?







Looking at the effects of water

How many things do we change?







Looking at the effects of water

To get results we can trust, we should only

change one variable (= factor = thing)

In contrast, we must try to keep all other variables the same.

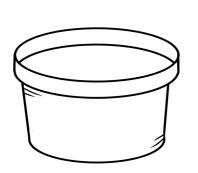


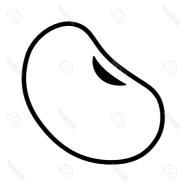
Looking at the effects of water



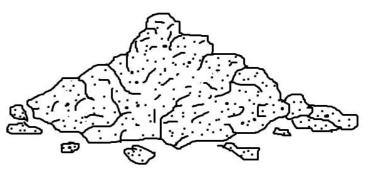
Think about this investigation.

What did we change?







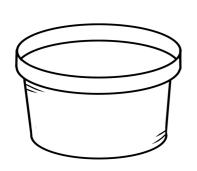


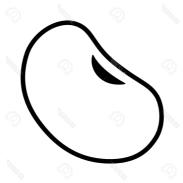


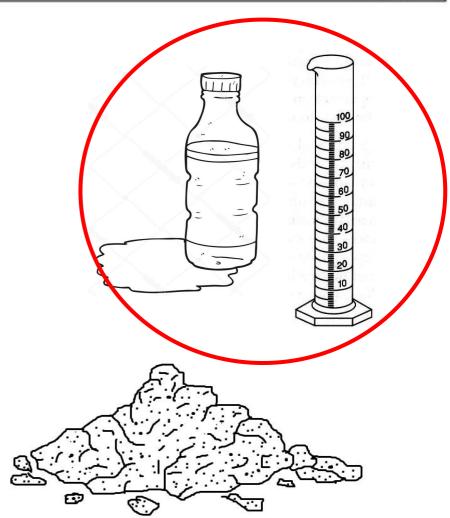
Looking at the effects of water

Think about this investigation.

What did we change?





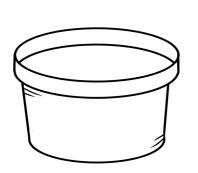


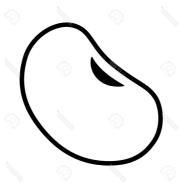


Looking at the effects of water

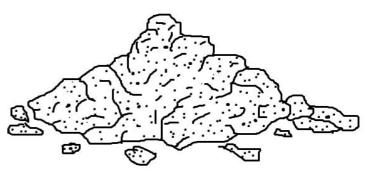
Think about this investigation.

What did we keep the same?









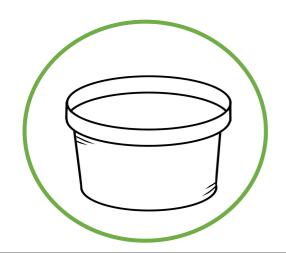


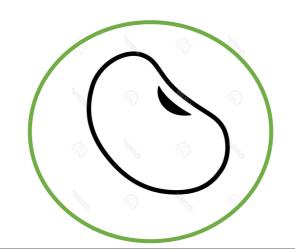
Looking at the effects of water

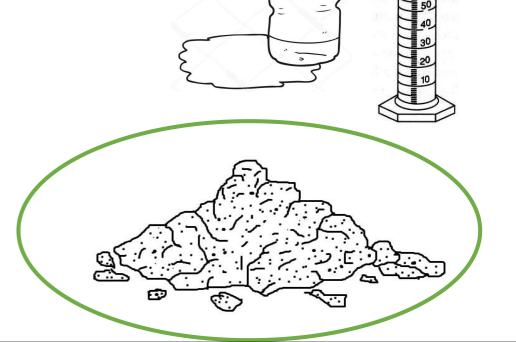


Think about this investigation.

What did we keep the same?









Looking at the effects of water



Now the students are ready to do the investigation.

Well done, everybody! Goodbye!

