This gives you the opportunity to observe over time. This is a key scientific skill that the children need to develop.

You are to conduct an experiment using green beans (or whatever seeds you can get a hold of)- Plant one and let it grow in a cupboard away from sunlight– still water but no light. Grow the other on the windowsill in the light .

The children are to observe how the plant is growing what do they notice what are the differences. The sheets for this actvitiy allow them to predict and plan the experiment and then evaluate after a couple of weeks– were their predictions correct?

Fair test– Keep three things the same– Seeds, Soil and Water.

Prediction—what do you think will happen in the different conditions?

What will you need– soil, plant pots. Water and seeds.

Method- 1. Get the plant pot. 2. Fill the pot with soil. 3. Put seeds in the pot. 4. Add water. 5. Put one pot in the cupboard. 6. Put one pot on the window sill.
Conclusion– weeks later…. a conclusion the results of what has happened. Discuss what has happened - Why do they think that has happened?- What is different? e.g. leaves, colour, posture- ones droppy and ones straight.
Plants have something called chlorophyll. This absorbs red and blue lights and reflects green. This is why plants are green.
If a plant has no light the chlorophyll can't absorb any light therefore the plant becomes pale. chlorophyll is a green pigment in all plants and that it absorbs light and causes the plants to turn green.

In order for leaves to grow they need sunlight because they absorb a gas called carbon dioxide which gives the plant food. This is a process called photosynthesis. In order to do this the leaves need to absorb energy from the sunlight. Photosynthesis is a process that all plants do. They do this by absorbing sunlight and carbon dioxide which gives the plant food and energy
In order for plants to grow they need water, sunlight and nutrients. When a plant is kept in a cupboard it doesn't have any sunlight therefore it won't grow as tall as a plant that has sunlight and eventually it will die. This is because the plant with sunlight can absorb energy from the light and this helps the plant grow..

How light affects a plant

L:O: To evaluate how light affects a plant.

Fair Test

The things we need to keep the same are:

-
-
-

Prediction

You will need:

-
-
-
-

Method

Results

Light

No Light

The one with _____ grew the best

because _____

Light vs no light!

L.O. To explain the visual effects sunlight has on a plant.

Light

No light

Can you write a sentence to explain the differences between the two plants?

Word Bank:

Green	Plants	No light
Pale	Leaves	Droopy
Chlorophyll	Light	Straight