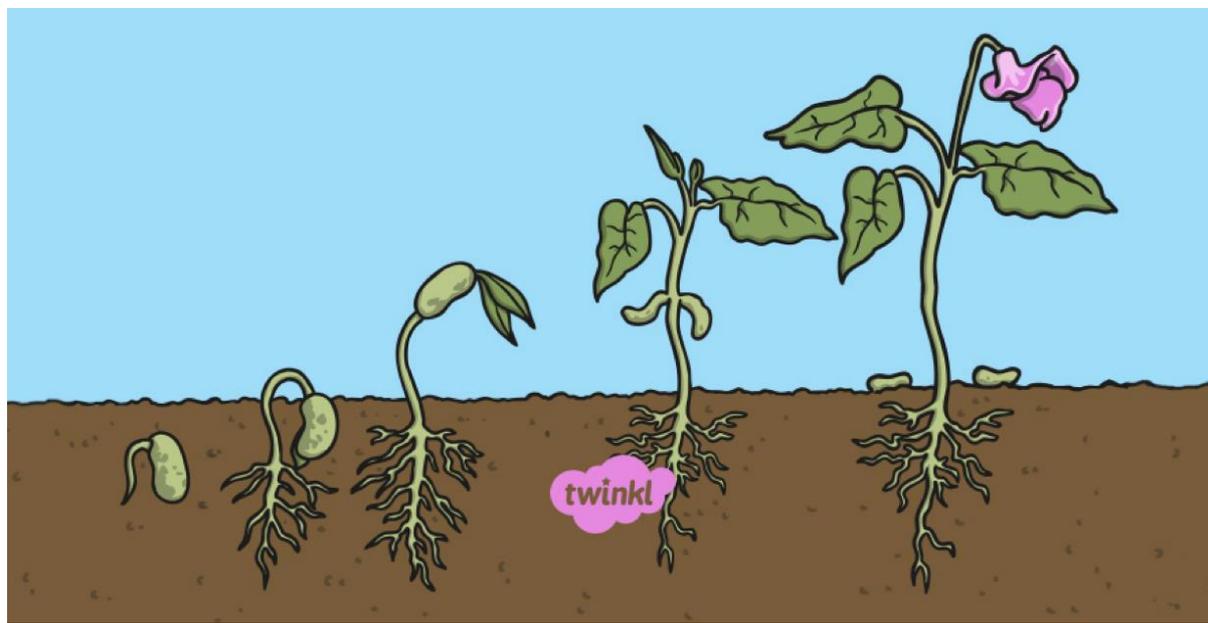


Kilmington Primary School Brilliant Beans



A few weeks ago you were asked to keep a clear container to plant one of your beans. This container should now be filled with some compost and the bigger of the beans (the runner bean) should be slid down between the soil and the container so that you can see the bean through the container. This will enable you to see the above on a daily basis as it happens in real life. This bean should be kept in a sunny spot and the soil kept moist but not so that water can be seen in the bottom. Pierce the bottom of your container to enable the water to flow through and not drown the seed.

The following are groupings for a school wide experiment with instructions for you to follow for the group that you are in. I will also added a document which can be used as a template or to help with suggestions for keeping a diary of events.

Have fun and let's see what we can grow.



Kilmington Primary Brilliant Beans 2020

The aim of this school wide experiment is to find the best conditions to grow beans in. To measure this we will be taking measurements and keeping diaries throughout the entire process. All children will need to send their daily diary entries to their class teacher once every week. We will be measuring the following as they grow:

- Height
- Width
- Number of leaves
- Number of flowers
- Number of beans

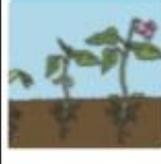
As we harvest the beans we will be measuring:

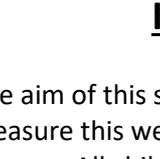
- The weight of beans that we pick off of the plant

Your diary entry could include some sketches of the plant and any further observations you can keep a regular note of this may include the weather conditions etc.

Science group 1

Plant seed in optimal conditions in small pot (aprox 4" diameter) of compost **placed in sunny window or greenhouse. Soil kept moist but not soaked.** Follow this method until plant has 4 true leaves (not the leaves which appear first). Start **hardening off** the seedling. Do this by during the day, on a reasonable day, taking the pot outside for an hour or two. The following day 2-3 hours and continue this until you reach hours that go into the evening (you may need to ask an adult to help here). Your seedling should be ready to re-plant into the ground or a large pot (minimum of 12"). Dig a hole a bit larger and deeper than the pot it is already in, add something such as a tall cane or trellis for the plant to grow up. Gently remove the plant from its current pot by gently squeezing and releasing around the pot. Put your fore finger and middle finger either side of the stem, turn the pot upside down and wiggle out of the pot. Gently tickle the root system to loosen the dirt and place in the hole. Fill back in with the soil taken from the hole and firm in. Water well. As the plant grows up the canes or trellis ensure that it hooks itself to it and winds around to support itself.





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- Height
- Width
- Number of leaves
- Number of flowers
- Number of beans

As we harvest the beans we will be measuring:

- The weight of beans that we pick off of the plant

Your diary entry could include some sketches of the plant and any further observations you can keep a regular note of this may include the weather conditions etc.

Science group 2

Plant seed in a small pot (aprox 4" diameter) of compost **and place in a dark cupboard. Water if soil dries out.** Follow this method until plant has 4 true leaves (not the leaves which appear first). Start **hardening off** the seedling. Do this by during the day, on a reasonable day, taking the pot outside for an hour or two. The following day 2-3 hours and continue this until you reach hours that go into the evening (you may need to ask an adult to help here). Your seedling should be ready to re-plant into the ground or a large pot (minimum of 12"). Dig a hole a bit larger and deeper than the pot it is already in, add something such as a tall cane or trellis for the plant to grow up. Gently remove the plant from its current pot by gently squeezing and releasing around the pot. Put your fore finger and middle finger either side of the stem, turn the pot upside down and wiggle out of the pot. Gently tickle the root system to loosen the dirt and place in the hole. Fill back in with the soil taken from the hole and firm in. Water well. As the plant grows up the canes or trellis ensure that it hooks itself to it and winds around to support itself.





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- Width
- Number of leaves
- Number of flowers
- Number of beans

As we harvest the beans we will be measuring:

- The weight of beans that we pick off of the plant

Your diary entry could include some sketches of the plant and any further observations you can keep a regular note of this may include the weather conditions etc.

Science group 3

Plant seed in a small pot (aprox 4" diameter) of compost **and place in garden. Water if soil dries out.** Follow this method until plant has 4 true leaves (not the leaves which appear first). Your seedling should be ready to re-plant into the ground or a large pot (minimum of 12"). Dig a hole a bit larger and deeper than the pot it is already in, add something such as a tall cane or trellis for the plant to grow up. Gently remove the plant from its current pot by gently squeezing and releasing around the pot. Put your fore finger and middle finger either side of the stem, turn the pot upside down and wiggle out of the pot. Gently tickle the root system to loosen the dirt and place in the hole. Fill back in with the soil taken from the hole and firm in. Water well. As the plant grows up the canes or trellis ensure that it hooks itself to it and winds around to support itself.



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The aim of this school wide experiment is to find the best conditions to grow beans in. To measure this we will be taking measurements and keeping diaries throughout the entire process. All children will need to send their daily diary entries to their class teacher once every week. We will be measuring the following as they grow:

- Height
- Width
- Number of leaves
- Number of flowers
- Number of beans

As we harvest the beans we will be measuring:

- The weight of beans that we pick off of the plant

Your diary entry could include some sketches of the plant and any further observations you can keep a regular note of this may include the weather conditions etc.

Science group 4

Plant seed directly into soil in garden, add something such as a tall cane or trellis for the plant to grow up. mark the position with a lollypop stick/marker and let the weather look after it.

