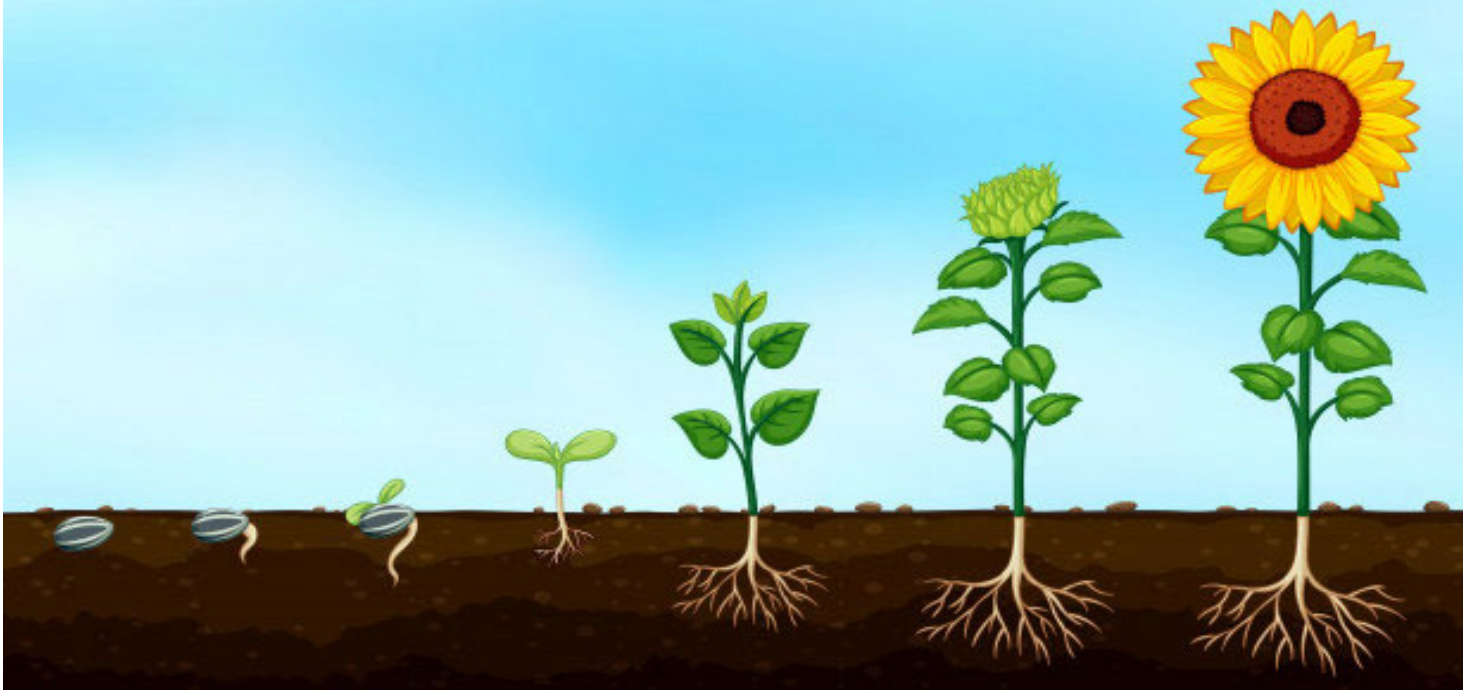


How Seeds Grow

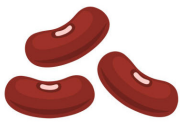


- Stage 1: Seed stage. The seed is asleep. Once it has been in a warm, wet place for long enough, the seed coat will break allowing it to germinate.
- Stage 2: Sprout stage. The first root will grow and start to attach to the soil so the plant has support.
- Stage 3: Emergence: First leaves will come out of the seed coat allowing the plant to photosynthesize.
- Stage 4: Seedling Stage. Roots begin to spread. The plant will need seedling fertilizer for a boost of energy and nutrients.
- Stage 5: Vegetative Stage. Plant is absorbing energy and nutrients to grow the stems and foliage.
- Stage 6: Budding Stage. Full grown plants need extra nutrients at this stage to make flowers from buds.
- Stage 7: Flowering Stage. Petals will begin to open and a flower can be seen! As flowers bloom, plants need extra water to help support the blooms.

Fun Bean Germination Activity

Materials:

- 1 bean seed
- 1 Ziploc bag
- 1 paper towel
- Spray bottle for holding water



Instructions:

- Dampen paper towel with spray bottle.
- Place wet paper towel in Ziploc Bag.
- Place bean on top of wet paper towel.
- Close Ziploc Bag.
- Place Ziploc Bag in a warm, sunny spot.
- Add water to paper towel when it dries out.
- Observe your plant growing in 3-5 days!
- After 2 weeks, move your bean plant to some soil. Don't forget to water it and give it some sun!

Extra Experiment:

- Plant two bean seeds, one in a sunny area and one in a dark area. Observe their similarities and differences. Track your bean plant's growth each day using a ruler.