

3RD GRADE

Plant Germination and the Lima Bean Life Cycle

3rd grade has been examining Lima Bean seeds and also looking at how seeds in general move or are dispersed throughout nature. Seeds are dormant when they are not exposed to things that would make them grow. The beginning of a seed's growth is called germination.

Reading

Read the attached article titled Germination FOSS to learn more about what happens during the growth process of a seed.

- If we were to plant the Lima Bean, it would go through many stages in its development.

Read the attached article titled Life Cycle Lima Bean to find out what each of those steps involve.

- What do we need to make plants grow? (soil, water, sun, air, space, nutrients)
- Why is each one important? Can we do without one of them?
- Which one do you think we could do without & still have growth?

Video

Who needs dirt? Crash Course Kids #27.1

<https://www.youtube.com/watch?v=eCSlrlk0GTs>

Were you surprised? This is something you can try for yourself with vegetable scraps at home!

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SUGGESTED ACTIVITIES

Activity 1

Open Attachment 1 and do the Discovery Kids Science Activity

Activity 2

Watch a Lima Bean grow without soil!

Materials: 1 or 2 dry lima beans, plastic ziploc bag, wet paper towel

- Steps:
1. Wet a paper towel and wring it out & place it folded inside the ziploc bag.
 2. Place 1 or 2 lima beans on 1 side of the bag next to the paper towel.
 3. Remove all the air from the bag and seal it.
 4. Tape to a sunny window - bean side out.

You should start to see growth in a little over a week. The longer you keep it in the window, the more growth and change you will see... All without soil!