

STEAM

SEEDS

FOR STUDENTS

Ag for Life

GROW

G

GET READY!

Guiding Questions:

What is a seed?

How do seeds grow?

How does seed science improve agriculture sustainability?

Ag for Life

Make a list of foods you know contain seeds!

Look at some different seeds:

<http://thehelpfulgarden.blogspot.com/2012/07/types-of-seeds-cards.html>

Have you eaten any of these seeds?

What do you think is inside a seed? Make a guess!

Extension: Collect and dissect different seeds and compare!

R RESOURCE ROUND UP!

Watch the video: How Does a Seed Become a Plant?

<https://youtu.be/tkFPyue5X3Q>

Questions:

What is germination?

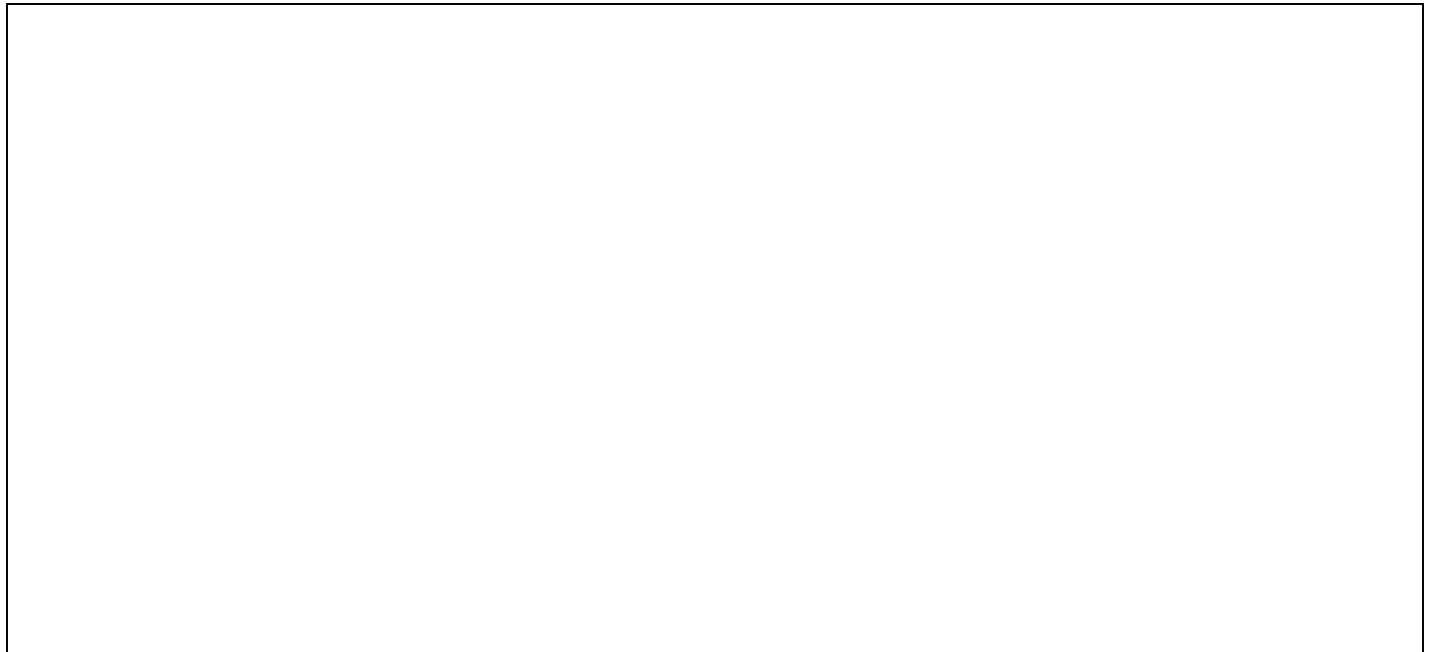
What do seeds need in order to germinate?

Sketch a five-step sequence to show the important stages of germination. Write a sentence to explain what is happening in each step.

Watch the video: Farming 101: Corn Planting

<https://youtu.be/zOli2qhnWCA>

Complete a Venn diagram to compare and contrast the seeding process by a farmer versus a home gardener.



Watch the video: How is Canadian Certified seed produced?

<https://youtu.be/ld7D9eOwZk4>

How does Canada ensure farmers have access to quality seeds?
Why is this process important to farmers? To consumers? To the environment?



Read the article: Canadian Seed Sector Profile

<http://www.agr.gc.ca/eng/canadian-seed-sector-profile/?id=1405967530785>

"Canada is recognized worldwide as a leading producer, processor and exporter of high-quality seed for a wide range of crops. It is a diverse sector that contributes billions to the Canadian economy and provides jobs for thousands. It is an innovation-focused industry that utilizes complex technologies with millions invested annually in seed research and development."

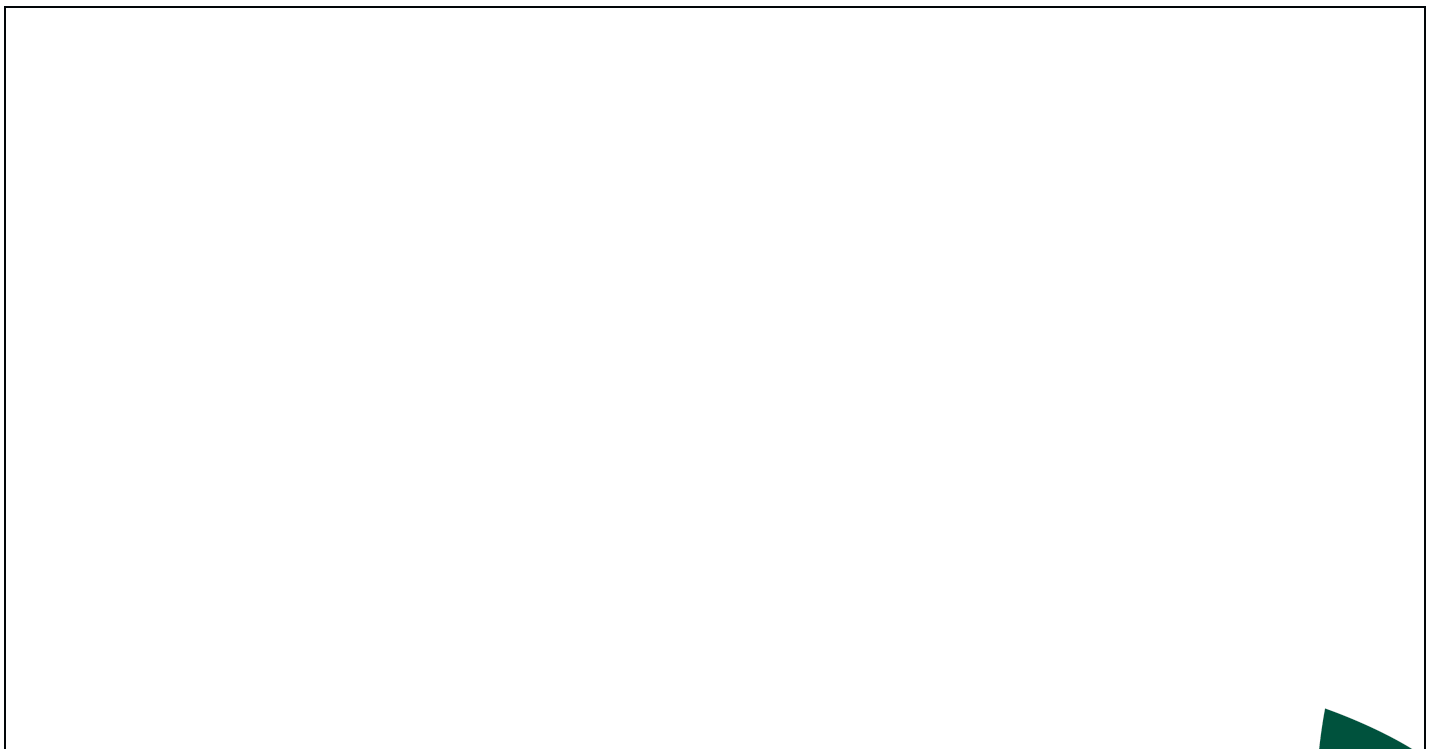
O OBSERVE RESULTS OF ACTIVITY OR EXPERIMENT

Dissect a bean seed to look inside!

<https://www.wikihow.com/Perform-a-Bean-Seed-Dissection-Experiment>

Draw the inside of the seed and label the parts.

What do each of the parts do?



Seed Jar Science

Follow the link to conduct your own germination experiments!

<https://littlebinsforlittlehands.com/seed-jar-science-experiment-kids/>

As you watch your seeds germinate and sprout, take a few photos each day. Compile your photos to create a time-lapse video like the one below!

<https://youtu.be/w77zPAAtVTul>

Get creative with seeds! Create your own chia pet and watch it grow!

<http://blog.consumercrafts.com/kids-stuff/how-to-make-your-own-chia-pet-2/>

Not sure what to do with those pantyhose or knee highs once they get a hole or run in them? Recycle them into a homemade Chia Pet! This is a simple and fun project that is a perfect craft for kids! They will be so excited to grow their very own homemade Chia Pet and will have fun tracking its growth process.

W WHAT DID YOU LEARN?

Imagine you are a seed. Use the space on the next page to write a story or comic telling your experiences as a seed being scattered and planted, germinating and sprouting.

Why do farmers invest in good quality seeds?

