

4-H at Home

ON THE GO LESSON

SEED GERMINATION NECKLACE



INCLUDES

SEEDS | BAGS | BEADS | YARN

4-H PROJECT AREAS

AGRONOMY | ANIMAL SCIENCE | CIVIC ENGAGEMENT



IOWA STATE UNIVERSITY
Extension and Outreach

INCLUDED SUPPLIES

- *Corn and soybean seeds*
- *Jewelry sized re-sealable bags with hole punched*
- *Soaked water beads*
- *Yarn*

DO REFLECT APPLY

Have you ever thought about what it takes for a seed to grow? Do seeds need sunlight to grow? We are going to try an experiment to find out.

To start, remove all the materials from your bag and spread them out. Find the corn and soybean seeds. Look them over, what similarities do you see? What differences are there? You could record what you see in a journal. Soybeans and corn are different kinds of seeds. A soybean is called a dicot, meaning it has two cotyledons or first leaves. Corn is a monocot and has one cotyledon, or first leaf.

Take one corn and one soybean seed and place them in the bag. Find the water beads, if they have dried out place them in water until they are fully soaked. Then place the beads inside the bag with the seeds and seal it up. Take the yarn and run it through the hole in the bag, tie the ends of the yarn to make a necklace. You can put the necklace on. If you would like you can put the bag under your shirt, so it stays dark. If you do not want to wear your seed necklace, hang it somewhere warm and dark. Check on your seeds daily and record your observations.

What happened? How long did it take before you began to see changes? Seeds require heat and moisture to sprout or begin growing. It does not take sunlight to sprout, but the plant will need it to grow. Did you notice differences in how the corn, soybean seeds sprouted? How do you think this relates to monocots/dicots? When you think about other seeds you have seen, do you think they are monocots or dicots?

If you wish to continue your experiment you can take your sprouted seeds out of the bag and plant them in soil.

Adapted from Seed Germination Necklaces from Iowa Ag Literacy Foundation.

LEARN MORE

Project areas are topics that 4-H members can learn about on their own, with a friend, at a club meeting, or at 4-H events. To learn more about the project areas you can explore in 4-H, please use our free resources online at <https://store.extension.iastate.edu/product/15266>.

To get involved with 4-H in Cherokee County, please contact Debbie, County 4-H Youth Coordinator, for more information.

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H O W D R S E V A E L E O P
 S I S E H T N Y S O T O H P
 L A T D E E S N T A S G R E
 O A W Y U L S C N L X L N E
 W W R S P L B I V I C I M C
 R O I M P S M B N O H B E V
 S T N E I R T U N S R D X I
 Z I W D E T O S N Y Y P M I
 T L J G U H H U O S C I F U
 S L I M W S S U T P C E A I

Find the ten words in the word puzzle above. They appear in all directions, including backwards!

_____ ? _____

After you find all of the words, circle the remaining letters and put the first 16 in order into the spaces above to find a hidden phrase in the word puzzle!

Germinate

Nutrients

Photosynthesis

Embryo

Seed

Sprout

Water

Sunshine

Soil

Leaves

