

4-H Ag in the Classroom

The 4-H Ag in the Classroom Programs

Welcome to the 4-H Virtual Ag in the Classroom Programs takes you on a tour of very important industries of Texas. Find out why farming is part of your life even if you have never visited a real farm. Come take a closer look at Agriculture in Texas!!

Curriculum Kits

The Kaufman County AgriLife Extension 4-H Ag in the Classroom Program offers **Curriculum Kits** to teachers FREE of charge due to the generous support of the Kaufman County Farm Bureau and the Kaufman County Commissioners Court. You can check out kits for 2 weeks and teach the lessons yourself. Curriculum Kits are all-inclusive and provide teachers with math, science, social studies and English Language Arts lessons. Also included are the materials needed to complete each lesson. All lessons are aligned to the Texas Education Standards. Lessons included with the kits are a compilation of Texas AgriLife Extension 4-H lessons and lessons used by AITC Programs across the Country.

Hatching in the Classroom- 1st and 5th grades



For 22 days your class will be learning about how eggs turn into Chicks!!! Each day will bring fun and exciting information. Video's supporting each day and activities. We have the virtual google classroom for the class to participate in with live chicks visiting the class after the "hatch" date. We also check out incubators with 12 eggs for a grade to partner to hatch out in the classroom. If you would like to receive more information or to sign up for the support materials, please email Kaufman County 4-H Coordinator, Carrie Sharp: cl-sharp@tamu.edu



20 Day Plant Program – 1st Grade

Using pinto seeds, students will be able to view the daily growth of the pinto seed to the 4-leaf plant. Viewing the process by opening a cup each day to view the growing process.

Objectives:

1. Students will learn the sequence of seed development.
2. Students will be able to identify the different parts of a seed and plant.

Pepper Plant – 2nd Grade

Using 4 pepper plants the student will observe 3 needs of a plant – Water, Air, and Sunlight, compared to the pepper plant that will remain as the control plant.

Objectives:

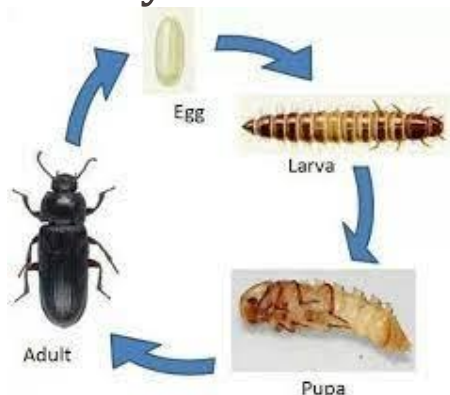
1. Students will learn the needs of a plant.
2. Students will be able to identify the different parts of a seed and plant.



Very Hungry Texas Caterpillar – 2nd and 3rd grades

Go on an epic journey of a hungry caterpillar! This version takes a Texas twist on Eric Carle's *The Very Hungry Caterpillar* and inspects Texas grown commodities, all while students create their own book. Summary: All about flowering plants from parts of seeds, plants, and flowers to a look at photosynthesis, pollination, fertilization, and uses of plants. Helps readers understand the basics of flowering plants from seed to flower including photosynthesis, pollination, and seed dispersal. This book can be made individually by students or used as a classroom copy.

Life Cycle of Mealworms – 3rd grade



The mealworm is the larval stage of the darkling beetle. The darkling beetle undergoes complete metamorphosis. Students each receive a mealworm to place in a habitat and take back to their classroom. They make observations of their mealworm and watch as it progresses from the larva to the pupa and finally the beetle will emerge.



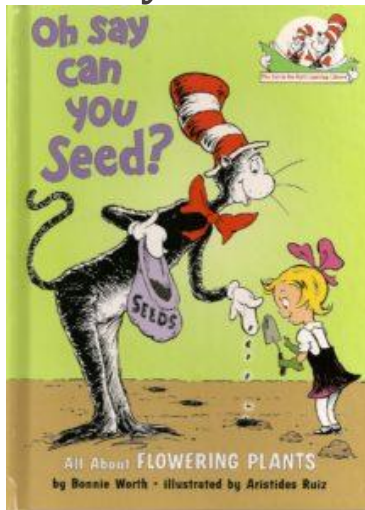
Cotton's Journey – 3rd Grade

Cotton's Journey is for 3 grade classes. Through this lesson plan on cotton's journey, students have an opportunity to look at the life of cotton from seed to the finished product. They will also learn about the history and get involved in hands on activities related to cotton.

Objectives:

1. Students will learn the sequence of cotton production and what each step entails.
2. Students will be able to identify the different parts of a cotton plant.

Oh Say Can You Seed (3 in 1) – 3rd Grade



In agriculture, plants are used as food sources, buffer zones, shade, erosion control, clothes and even fuel. All plants start as seeds, and this lesson takes students from seed parts, germination and plant parts to flower parts, pollination and seed dispersal for regrowth. It's based on the book *Oh Say Can You Seed* by Bonnie Worth.

Soils and Textures – 3rd grade

Soil is the foundation of agriculture. Farmers know that different soils are suitable for different crops, but how do they recognize what type of soil they have? Texture is an easily recognizable property that informs farmers about how to manage their soils. In this curriculum students will investigate soil texture and identify the major components of soil.

Journey of the Raindrop – 4th grade



Through this lesson, students will become a water molecule (a raindrop) as they journey through the movements of water through the water cycle. While water does circulate from one point or state to another in the water cycle, the paths it can take are variable. This curriculum has 4 activities but the most enjoyable is the game "Journey of the Raindrop." This activity can be done in person or virtually. The in-person version you will need to sign up for the materials to be dropped off at your school. Contact Carrie Sharp: cl-sharp@tamu.edu



Water Stream Trailer -5thGrade

The lessons of the Water Stream Trailer look at identifying the role water plays in erosion and how the amount of water flow can affect erosion. 3 Videos take the class through what is erosion, why rivers do not run straight, and how vegetation protects streams. We have a virtual video format and a live demonstration where a Stream Trailer is brought to the school for a live demonstration. If you would like to receive more information or to sign up for the support materials contact Carrie Sharp: cl-sharp@tamu.edu