



JASPER COUNTY FARM BUREAU

Agriculture in the Classroom

2018-2019 SCHOOL LESSONS & ACTIVITIES PRESCHOOL-KINDERGARTEN



ABOUT US

The mission of Ag in the Classroom is to help students in grades K-12 acquire the knowledge needed to become agriculturally literate through engaging, relevant, Iowa Core based STEM lessons and activities at **no cost** to schools.

Learn more & see videos of our lessons at:

www.jaspercountyfb.com

CONTACT US

Trish Hafkey
Jasper County Farm Bureau
641-792-6253
jasper.county@ifbf.org

SENSORY EXPERIENCES

Chick Visits (March-May)

Chicks from a classroom hatching project will visit your class. We will reference easy-reading books to discuss the chicks. Students will observe behavior including eating/drinking & will have supervised/assisted handling. Plan at least 20-30 min per group of 15 students.

Fall Feels (August-November)

Fall is a great time to examine corn, soybeans & other harvest produce such as pumpkin. See the plants up close. Are you taller than corn? Are bean pods fuzzy or smooth?

Butter Making (All Year)

Basic intro to dairy. Students shake cream into butter and sample the results. S.K-2.S1.2 21.K-2.ES.4 21.K-2.ES.5





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PRESCHOOL-KINDERGARTEN



ADD A VIRTUAL FIELD TRIP!

Bring the farm to your classroom through the Farm Chat program. Your students can Skype live with a farmer or ag industry professional as they harvest corn, plant soybeans, feed livestock, or give a tour of their workplace. Opportunities exist to discuss seeds and plant lifecycles, careers in STEM, and much more. The curriculum connections are endless!

Technology for this experience is completely handled by our staff and volunteers. We work together with you on topic and content. Then, sit back and enjoy the visit from your classroom!

Examples can be found at www.jaspercountyfb.com

LESSONS

Farm Animals for Beginners

Students identify characteristics of animals and read A Day at Greenhill Farm. Matching game with parent/young cards included. SS.K.6 SS.K-2.E.2 SS.K-2.E.6

Hungry Caterpillar

Could you eat as much as a hungry caterpillar? Students will learn about ag products & follow the change of a caterpillar to a butterfly with this engaging activity. K-LS1-1 K.CC.A.3 21.K-2.E.4 21.K-2.HL.5 RL.K.1

Bees Bees Bees

Students will understand the importance of bees and the basics of pollination with this hands-on lesson. SK-2.LS.3 SK-2.LS.4 K-ESS3-1 K-ESS3-3





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ACTIVITIES & LESSONS

Tops & Bottoms

See how vegetables grow & what parts we eat through the book, *Tops & Bottoms*. Students create paper wheel for understanding & grow their own vegetable in Nanodomies. SK-2.LS.3 SK-2.LS.4 K-ESS3-1 K-ESS3-3

Hungry Iowa Caterpillar

Students will learn vocabulary and about Iowa agricultural products. The story comes to life as students construct their own paper chain caterpillar. 21.K-2.ES.4 21.K-2.HL.5 RL.K.1





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STEM LESSONS

Soybean Lifecycle Model & Activities

Introduces how soybeans are grown, teaches seed anatomy through a seed dissection activity, & illustrates the germination.. Add-on activities available include "Power of a Seed" and My Family's Farm series books about corn & soy. 1-LS1-1 1-LS1-2 1-LS3-1 2-LS2-1

Food Dollar

Students learn how food dollars are distributed through the food system. Practice using & identifying currency. SS.K-2.E.2 2.MD.C.8
21K-2 FL.2 SL.2.3

Intro to Soils

Students gain an understanding of the importance & complexity of the Earth's soil. Construct soil layers in a snack or non-food option, determine living & non-living components, investigate what is in the soil. Read "Dirt" & "The Soil Neighborhood". 2-PS1-1
2-PS1-2





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Agriculture in the Classroom

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THIRD-FOURTH GRADES



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ACTIVITIES & LESSONS

Chick Hatching (March-May)

Students explore how an embryo develops inside of a chicken egg over time, discuss life cycles and other natural cycles. 21 day minimum incubation. Several lessons to accompany hatching to choose from. 3-LS-1 4-LS1



Ag Across Iowa Trailer (Aug-Nov, Mar-May)

Interactive mobile learning trailer features a tractor driving simulator. Pull-out stations integrate STEM and agriculture; weights and measures, plants, conservation and animal growth are just a few. Easily modified to wide variety of standards.





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STEM LESSONS

Conservation & Ag

Learn about issues concerning soil and water and how farmers use science to help conserve these resources through hands-on lessons. Plant cover crops, build terraces and learn about no-till. Also includes watershed and topography models. S.3-5.ES.2 S.3-5.LS.2

Turkey Math

Students will have a greater understanding of how turkeys are raised and how Thanksgiving dinner gets from the farm to your dinner table.

S.3-5.LS.1 S.3-5.S1.5

Build a Calf Workshop

Students will be introduced to genes and heredity in the context of beef cattle. Make simple comparisons to heritability of traits in people. 3-LS3-1 3-LS3-2 3-LS4-2 4-LS1-1

