

KANSAS CORN STEM

Kansas Corn STEM, funded by Kansas corn farmers, provides **free** lessons, **free** supplies and **free** professional development opportunities for Kansas educators. With **over 1,300** Kansas educators per year using our resources we work hard to provide quality turnkey lessons and supplies that help educators teach science through the lens of corn.

What's the catch?

There isn't one. Our corn farmers know that teachers need high quality lessons that meet standards, they need supplies to teach **hands-on activities** and everything needs to be **turnkey**, given the limited time teachers have to learn something new. Ask around, you can probably find someone who can tell you about their experience with Kansas Corn STEM.

What can I get free?

This document outlines some of our most popular resource offerings and photos of what you will receive either via mail or at a workshop. If you visit **kansascornstem.com** you will find a "Request Resources" section and additional information about all our programs. While you visit the website make sure to sign up for our email newsletters to stay up to date on new offerings.

Want Free Breakout Boxes?

Kansas Corn STEM conducts one-hour breakout box professional development workshops for faculty. The faculty will spend time trying to "break out" followed by learning how these boxes can be used in the classroom and how Kansas Corn STEM provides additional resources. The school will then receive **three free breakout boxes** to share among their faculty.

Can't wait? Check out our
online breakout box lessons!



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Kindergarten - 5th Grade

Teachers can request the following free kits to use in their classroom. No prior knowledge about agriculture or corn is needed to teach these lessons. All kits come with a lesson guide with inquiry-based questions and meets NGSS.

C is for Corn

Explore the parts of corn; learn the sounds of the phenome hard C; work with patterns; develop an understanding of inheritance by comparing different types of corn.



A Kernel's Adventure

Discover where a corn plant's seed comes from; expand observation skills; form explanations based on evidence; develop motor skills in the context of corn.



How Does it Grow

Trial different growing conditions i.e. amount of water and light; test their ideas about what corn plants need to grow and live.



Staying Alive

Plan an investigation; make predictions; collect evidence; examine findings as they determine what corn plants need to germinate and grow.



Structurally Speaking

Focus on corn seed, plant structures and functions; investigate how a seed germinates; observe and draw the parts of a corn plant as it grows.



World Wide Web

Learn the elements of a cornfield ecosystem; model relationships among organisms through food chains and food webs; show how matter and energy move through a system.



6th - 12th Grade

Each summer Kansas Corn STEM hosts two Seed to STEM workshops for middle school and high school teachers. During the workshops, each teacher practices 10 labs that can be used in the classroom to help students learn the role agriculture plays in science. Labs focus on corn, biotechnology, ethanol, soil and water. In addition, teachers spend an evening on a farm and will tour an ethanol plant. The workshops are free. Teachers will receive \$500 in free lab equipment and will be eligible for graduate credit.



Lesson Library

The Kansas Corn STEM Lesson Library provides science lessons, labs and access to materials for K-12 educators. All lessons meet Next Generation Science Standards and provide instructions to teach about agriculture and its connection to science.



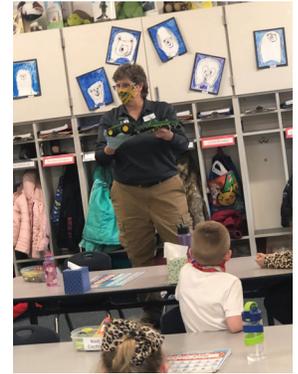
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TEACH-FLEX

TEACH-FLEX Lessons are designed to be easy to do labs with easy to find materials. These are ideal for teachers with limited resources, home school or after school programs and can easily be conducted remotely.

“The Kansas Corn resources have helped to bring reality to the classroom for a hands-on approach to learning. It offers teachers a way to incorporate agriculture in a cost efficient way and with lessons that are inquiry based and ignite wonder!” -Jandee Kruse, 2nd Grade Teacher

Guest Speakers

The Kansas Corn STEM Guest Speakers, Bill Johnston and Shelly Robinson, travel the state to visit classrooms. They both have agriculture backgrounds and have over 30 years of teaching experience. They will customize a presentation for each classroom. Students get to learn more about agriculture while completing hands-on activities.



Mystery of Corn Readers



Expand student learning about corn with a free subscription to Mystery of Corn reader. Four times during the school year, teachers can receive a copy for each student to explore a new corn mystery. There will be different versions available; K-5, 6-8 and 9-12. Teachers can also request readers in Spanish. Subscribe soon to get the first edition coming out in September!

“We Grow Corn!” Activities

The “We Grow Corn!” book was written to walk the reader through the process of raising corn on a Kansas family farm. Written in a way that all readers can enjoy the book, teachers can pick and choose what content to read based on age of the reader.



The Activity Guide will expand learning with activities and resources that go along with the “We Grow Corn!” book. Materials for the activities are easy to find in your home or classroom!



Summer Scientist Lab is designed for summer programs to help their students become scientists and learn how light impacts plant growth.



The “We Grow Corn!” **Public Library Series** will educate the reader about how corn is grown and what it is used for. Public libraries can order free kits that will include kids crafts, snacks and instruction guides.

Check out the “We Grow Corn!” Video Series!

“The Seed to STEM program has provided some of the most engaging, connected lessons and experiences for myself and my students, and made a strong connection between agriculture and education for us all.” - Chuck Lunney, Olathe Northwest High School

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FREE Resources



Visit kansascornstem.com to request your free resources!

