

**“Kansas Corn continues to amaze me with how much they support teachers, and the incredibly high quality of lessons and materials.” - Seed to STEM participant**

# KANSAS CORN STEM



## FREE Resources


Kansas Corn STEM, supported by Kansas corn farmers, provides free lessons, supplies and professional development opportunities for Kansas educators. With over 3,300 Kansas educators per year using our resources, we work to provide turnkey lessons and supplies that help teach STEM through the lens of corn.

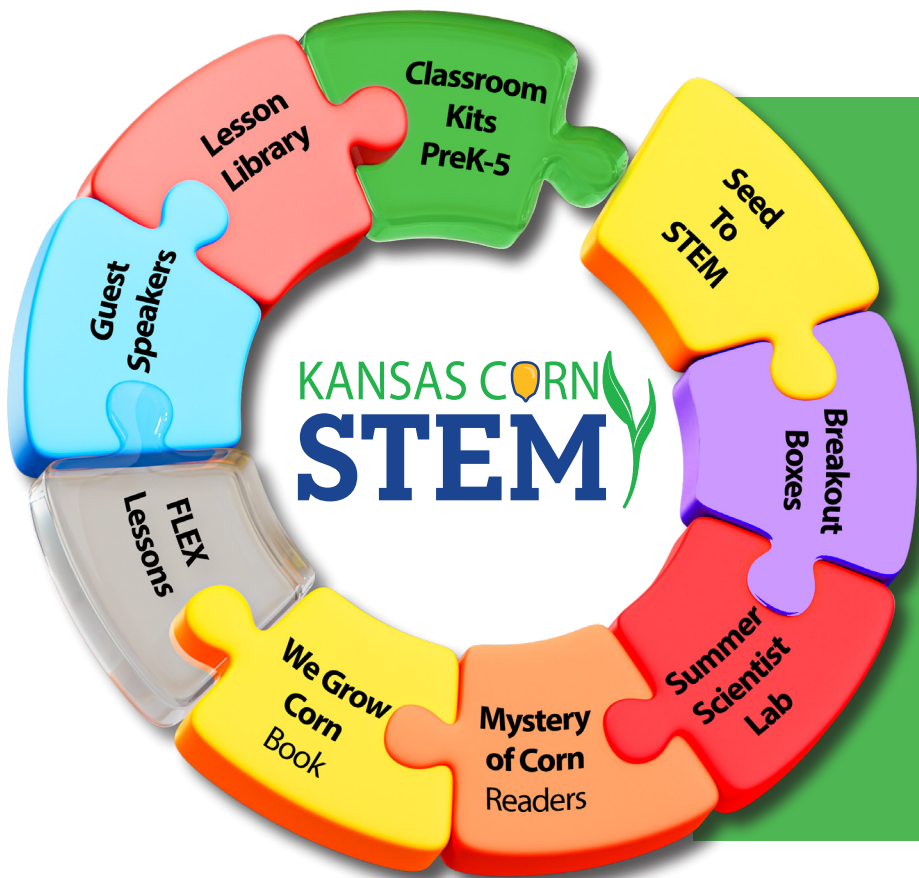


[kansascornstem.com](http://kansascornstem.com)



 @kansascornSTEM

 @kansascornSTEM



- Over 100 FREE STEM educational offerings
- Use as stand-alone or in sequence to provide weeks of learning
- Learn more about Kansas Corn STEM resources
- Subscribe to our newsletter at [kansascornstem.com](http://kansascornstem.com)

## PreK - 5th Grade Resources

Kansas teachers can request free kits to use in their classrooms. 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 meet NGSS.



### PreK-Seasons

Observe how corn changes throughout the seasons; learn to follow simple directions while completing tasks; count in sequence to 10; use cognitive and fine motor skills in the context of corn.



### Kindergarten-C is for Corn

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

### 1st Grade-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.

### 2nd Grade-How Does it Grow

Conduct trials on different growing conditions i.e. amount of water and light; test students' ideas about what conditions corn plants need to grow and live.

### 3rd Grade-Staying Alive

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

### 4th Grade-Structurally Speaking

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

### 5th Grade-World Wide Web

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

# Resources for All Grade Levels

## Lesson Library

- Search by grade level
- Lesson training videos
- Powerpoints/Google slides

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

## Mystery of Corn Readers



Expand student learning about corn with a free subscription to Mystery of Corn readers. Four times during the school year, teachers can receive a copy for each student to explore a new corn mystery, along with a teacher guide. Four versions available: K-1, 2-5, 6-8 and 9-12. The Mystery of Corn readers are also available in Spanish.



## Breakout Box Workshops



Sign up your school up for a one-hour professional development breakout box workshop for teachers. Break out of a Kansas Corn breakout box, and learn how these boxes and other Kansas Corn STEM resources can be used in the classroom. The school will receive **three free breakout** boxes to use and share with their faculty.



## Guest Speakers for Your Classroom



Request a classroom visit from our Guest Speakers Bill Johnston and Shelly Robinson. Bill and Shelly visit classrooms across Kansas. Both have agriculture backgrounds and over 30 years of teaching experience. Sign up for a presentation with hands-on activities to help your students learn about STEM and agriculture.



## 6th - 12th Grade Resources

Each summer Kansas Corn STEM hosts Seed to STEM workshops at two locations for middle school and high school teachers. During each workshop, teachers practice 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 tour an ethanol plant. The workshops are free. Teachers will receive \$500 in free lab equipment and will be eligible for graduate credit.



“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

