

2024 NAAE Agriscience Learning Labs**Sponsored by****Thursday, October 24, 2024**

9:00–10:15 a.m.

The Crossbred Cattle Lab: Discovering Cattle Genetics**NAAE Agriscience Learning Labs****Powered by: Corteva AgriScience™****Presenters: NAAE National Agriscience Teacher Ambassadors****NAAE Agriscience Learning Labs – Room 145, ICC**

This isn't just any lesson—it's an adventure to the cattle ranch where you learn about genetics but also unravel a thrilling, well-documented phenomenon found in crossbreeding cattle. Put on your Rancher gear, because we are selecting cattle breeding pairs to get specific results of those pairings? Get ready to experience and leave with this inquiry activity where your students not only master the basics, but they'll also uncover a fascinating, well-researched genetic phenomenon in crossbreeding cattle. Don't miss this chance to bring genetics to life in the most exciting way possible.

10:30–11:45 a.m.

The Grizzly Greenhouse Murders! A Mysterious Twist on Floral Identification**NAAE Agriscience Learning Labs****Powered by: Corteva AgriScience™****Presenters: NAAE National Agriscience Teacher Ambassadors****NAAE Agriscience Learning Labs – Room 145, ICC**

Ready to turn your classroom into a thrilling CSI adventure? Join this workshop where you will dive into the fascinating world of flower morphology and become detectives in a high-stakes murder investigation! Get hands-on experience using a dichotomous key to identify floral species, with each correct identification bringing them one step closer to cracking the case. By matching plant evidence from the crime scene, you will piece together clues to unmask the prime suspect. This isn't just a lesson that you walk away with—it's an exhilarating blend of science and mystery that will have your students on the edge of their seats. Come learn how you can transform your students into botanical sleuths in the most exciting investigation they'll ever experience!

1:30-2:45 p.m.

Careers in Agricultural Cooperatives**Powered By: CHS****Presenters: NAAE Facilitators****NAAE Agriscience Learning Labs – Room 145, ICC**

As agricultural educators, we want to inform our students of all possible career opportunities. Embark on this journey where you'll learn how to help uncover your student's passions, allow them to explore dynamic career opportunities, and discover the amazing world of agricultural cooperatives! Join us for an interactive workshop where you'll (1.) Uncover career interests and dreams; (2.) explore limitless possibilities within agricultural cooperatives; and (3.) learn how cooperatives are revolutionizing the agricultural industry and making a real impact. Join us as we also unveil our easy to access teacher resources and media library. This is a workshop that continues to keep on giving as you will receive a complimentary co-op in a box that features instructional materials, visual aids, and interactive materials (\$100 value).

3:00-4:15 p.m.

Unlock YOUR Potential- #TeachAg**Powered By: CHS****Presenters: NAAE Facilitators****NAAE Agriscience Learning Labs – Room 145, ICC**

Unlock the future of agricultural education with the 2024 NAAE Lesson Plan in-a-Box! This interactive inquiry lesson plan is designed to ignite your student's passion to consider becoming the next generation of agricultural educators! Dive into the 2024 NAAE #TeachAg Lesson Plan in-a-Box "Unlock YOUR Potential", where you'll explore innovative strategies to inspire your students to consider a fulfilling career in teaching agriculture. This hands-on session will guide you through dynamic activities that challenge students to earn keys to their own agricultural education department, thus unlocking their potential and enthusiasm for the field. Don't miss this opportunity to empower your students and shape the future of agricultural education—attend this workshop today and become a catalyst for change! You also walk away with your own 2024 NAAE Lesson Plan in-a-Box.

Friday, October 25, 2024

9:00–10:15 a.m.

Sweet Sheep Genetics**NAAE Agriscience Learning Labs****Powered by: Corteva AgriScience™****Presenters: NAAE National Agriscience Teacher Ambassadors****NAAE Agriscience Learning Labs – Room 145, ICC**

As we push the boundaries of livestock advancements, new challenges and groundbreaking solutions emerge. Here is your chance to immerse yourself into genetics while gaining a hands-on activity to introduce into your classroom with the latest genetic innovation. In this workshop, you will crossbreed sheep and predict which genetic diseases may show up – diseases the industry is working hard to eliminate. Get ready to roll up your sleeves and engage in a real-world activity that showcases an effective way to practice predicting dihybrid crosses, using Punnett Squares, etc. This is not just any workshop – It's an adventure in genetics that will leave you inspired and equipped with practical knowledge to bring back to your classroom.

10:30– 11:45 a.m.

River Rangers – The Smith River Water Quality Chase**NAAE Agriscience Learning Labs****Powered by : Corteva AgriScience™****Presenters: NAAE National Agriscience Teacher Ambassadors****NAAE Agriscience Learning Labs – Room 145, ICC**

Calling all River Rangers! There is a problem in the Smith River watershed; is agriculture to blame? We will need your help during this thrilling, hands-on inquiry lab that brings real-world science into your classroom! Open the door for your students to become a River Ranger while investigating the sources of excess nutrients impacting water quality. Get ready to engage your students with interactive activities that will make them feel like environmental scientists on a mission while they discover (1.) the intriguing mystery of nutrient pollution; (2.) best management practices for animal science, plant science, and beyond; and (3.) real-life applications in natural resources and environmental science. This workshop is perfect for paring curiosity and fostering a deeper understanding of crucial environmental issues. Join us for this adventure in science and discovery – your classroom will never be the same.

1:30-2:45 p.m.

Here Comes the Sun: Unlocking the Power of Agrivoltaics in the Classroom

NAAE Agriscience Learning Labs

Powered by: Corteva AgriScience™

Presenters: NAAE National Agriscience Teacher Ambassadors

NAAE Agriscience Learning Labs - Room 145, ICC

Dive into the groundbreaking field of agrivoltaics, where solar energy meets agriculture. Through hands-on experiments, you'll learn how to harness the power of photovoltaic cells to generate electricity and explore the factors that affect their efficiency. Perfect for educators looking to integrate energy concepts into their curriculum and understand the synergy between food production and renewable energy goals.