



Make 'N' Take Presenters

Please note: This list is frequently updated with new workshops and information. Check back often for the latest additions.

1. Grow & Evolve: Planting in Dino Planters

- a. Presenter: Steve P, Monte Vista School
- b. Grades: K-12
- c. Description: Let's get creative with fun materials (think dinosaurs) and show how succulents and cacti can teach many of the plant science/biology standards.

2. Beef in the Classroom

- a. Presenter: Jill Standen, Howard Elementary School
- b. Grades: K-6
- c. Description: In this lesson students will learn how cows eat and process their food. We will use the Ag in the Classroom "Chew it Twice" resources to follow the path food takes on its way through the cow. Literature that follows this lesson will also be shared and a brief extension to integrate ag science with writing skills.

3. No Garden, No Problem

- a. Presenter: Kevin Jordan, Leo A. Palmiter Jr/Sr High School
- b. Grades: K-12
- c. Description: Learn the different methods and strategies to cultivate different types of plants without the need for a traditional school garden. Learn about cultivating herbs, mushrooms, micro greens, succulents, and tropical plants in your classroom. You don't necessarily need a school garden to teach your students about cultivating plants in a meaningful way. This presentation will empower you to grow without a garden.

4. Butter in a Jar

- a. Presenter: Miranda Blagg
- b. Grades: K-8
- c. Description: In this hands-on activity, attendees will explore the butter-making process by shaking jars of heavy whipping cream to observe the physical change from cream to butter and buttermilk. They will learn how to present this activity in their classroom and receive the lesson to take home with them.

5. Poppin Good Time

- a. Presenter: Suzanne Squires
- b. Grades: K-8

- c. Description: Students grow their own popcorn, harvest the cobs and create a gift using the kernels. Students create their gift using small mason jars, ribbon and their own popcorn brand label. This project can turn into a genetics experiment on the colors of kernels as red, yellow, white and blue are passed on from one generation to the next. Popcorn can also be marketed and sold instead of using it as a gift. Popcorn is easy to grow and easy to study. Participants will see how it can be grown and used in third grade and middle school to enhance their curriculum.

6. Portable Greenhouse Plant Starter

- a. Presenter: Karen Farley
- b. Grades: K-8
- c. Description: Participants will plant seeds against the wall of a clear plastic bowl so that students may observe the progression from seed to seedling to plant. After watering, a clear fitted lid will be placed on top so that students may observe the process of the water cycle. After plants reach the top of the lid, the plants are then transplanted into a garden or larger pot. Most of the plants that are grown are used in my after-school gardening & healthy eating class.

7. Worker Bee Roles: Lesson and Game

- a. Presenter: Emily Helton
- b. Grades: K-6
- c. Description: Students will explore the different roles of worker bees, drones, and the queen. Through engaging visuals and discussions, students will understand how honeybees work together to support their hive and the importance of bees in nature.

8. Solar Bracelets

- a. Presenter: Adrian Williams
- b. Grades: K-3
- c. Description: Participants will experiment with a STEM activity SMUD uses with students that introduces students to the power and impact the sun has on the planet. They will use UV beads to understand UV rays, visible light and more. Participants will be able to take home the activity they complete and receive information on how to replicate the activity for their students at low or no-cost depending on their location.

9. Hexagons in the Hive

- a. Presenter: Carolina Burreson
- b. Grades: K-6
- c. Description: Taught as a discovery lesson, during which students discover why honeybees build hexagonal cells. Honeybees are purposeful in their choice to build hexagonal cells because it is the most-sided polygon that will cover a plane without waste. It is also the polygon closest to being circular without waste, which accommodates bees in the larval stage, which is round.