



Farm to Fork



Grade Level: Kindergarten – 2nd Grade

Approximate Length: 125 – 180 minutes

Objectives:

- Learn the importance of farmers and their role in feeding the world
- Discuss the relationships between animals, people and the environment
- Explore the process of turning heavy whipping cream into butter
- Compare and contrast different dairy products

Science Standards Available (Teacher will identify which standards to bundle):

- K-LS1-1 Plant and animal needs
- K-ESS2-2 Environmental change
- K-ESS3-1 Environmental relationships (needs and places they live)
- K-ESS3-3 Environmental solutions
- K-PS3-1 Sunlight warms the Earth
- 2-LS4-1 Habitat and biodiversity
- 2-LS2-1 Environmental plant needs
- 2-ESS2-1 Erosion design solution
- 2-ESS2-2 Mapping land and water

Outline for Program:

- **Interest Approach (5-10 min):** Students will start the lesson by working as a team in small groups to create a definition of a seed and then as a whole group we will come together to share our answers, to see how close we are to the actual definition
- **Opening Activity (15-20 min):** Together the group will read “A Seed Needs Sun” and create Plant Needs Bracelets to connect the important factors to a successful garden
- **Presentation (45-60 min):** The students will learn about the importance of farmers and how they feed the world, while taking care of the environment. We will go through some familiar food products and have a discussion about where they come from. Students will then watch a video of “Who Grew My Soup?”, where the author covers topics such as farming and eating healthy foods. Together we will make the connection that farmers take care of the environment to grow healthy plants and the healthy plants can feed the animals and then healthy animals can feed people. Next, we will discuss the importance of dairy products and generate a list of dairy products that students love. The class will learn how to make butter and work with their small groups to complete this task. When the butter is made, students will enjoy their snack on crackers and discuss how the three states of matter apply to this activity. The final discussion will cover steps it takes to make butter... Starting from the farmer raising the crops to the milk plant making the dairy products.
- **IQhub Scavenger Hunt (45-60 min):** The IQhub is an interactive museum, that will help the students build on topics they have already learned and grab their attention for some new ones as well. Students can work individually or in small groups to explore the IQhub and learn about agriculture and the environment. This museum incorporates Science, Technology, Engineering and Math (STEM) to give students a well-rounded and fun learning experience.
- **Closing Activity (15-30):** Since plants and animals play a key role in each other’s lives, it’s important to understand how a healthy environment effects all living things. Students will get a chance to stretch their legs and see some easy ways to care for the environment and how to create healthy habitats for living things. Erosion, wetlands and environmentally friendly buildings are other topics discussed during this activity.

Additional Resources on IQhub YouTube Channel:

<https://www.youtube.com/watch?v=5L566dSNUUk>