# Get to Know a Crop

THEME: EXPLORING THE ECOLOGY OF FOOD



# **ESSENTIAL QUESTION**

How do we determine whether we should grow a crop in our climate?

#### LEARNING OBJECTIVES

✓ Students will appreciate the diversity of crops that make up our diets.

✓ Students will be able to compare and contrast characteristics of various crops and relate these to the climates in which the crops grow.

## **LESSON DESCRIPTION**

This is a research project, and the time can be split over multiple sessions or shared with the classroom teacher. In this lesson, groups of students think like a farmer and research a crop to determine whether they should grow it. After learning the crop's history and how it's grown and used, students prepare and present arguments to their classmates on whether this crop should be grown in their region.

# **MATERIALS**

- Horticulture reference books
- Library and/or computer cart
- Group Role Cards (p. 428)
- Chart paper and art supplies (optional, if you want students to create a visual of their crop for presentations)

## **PREPARATION**

- A week before the lesson, ask the school librarian to pull some horticulture books and other resources that will help your students research crops. You may also want to reserve books from your local library.
- Schedule a class visit to your school's library during class time and/or reserve computers.
- > Photocopy and cut out a set of Group Role Cards for each group of 3-6 students.
- Display sentence starter: "If we were farmers, we would/would not grow this crop because

#### **ACTION STEPS**

1. Growing a Farm Game: Explain to students that they're going to play a game to think of as many fruit and vegetable crops they can think of. Sitting in a circle, Explain, The first person to go says, "I have a farm and I'm growing" something that starts with an A like artichokes. The next person who goes will have to say, "I have a farm and I'm growing artichokes and . . ." then they add something that starts with a B, like "blackberries." The game continues around the circle with every letter of the alphabet, and it becomes more of a challenge to remember all the other items on the farm. If you get stuck, you can ask the class to help you remember. If you have a large class, you might want to divide the class in half to play the game. (10 min.)

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- **2. Explain the Activity:** Today I want you to think like a farmer and determine whether you'd grow a crop that you're interested in after you've researched and learned more about it. Ask, What do you think are good reasons for growing certain crops over others? Create a list together as a class. The list might include, taste, thrives in our climate, ease of growing and tending, ease of harvesting, is unusual, is well-loved/popular with customers, etc. Explain, With a group, you'll decide on which crop you'll research. Each member of the group will research something different-whether it can be grown locally, where it originated, its traditional uses, how it's prepared and eaten, its history, if it's sold locally, etc. Then you'll prepare an argument for why a local farmer should or shouldn't grow the crop you researched. Ask students to write the name of a fruit or vegetable they'd like to research to bring to their group. (5 min.)
- **3. Assign Groups:** Assign groups and have students decide together what crop they'll research. You might have them select one of their individual choices at random out of a container if they're having a hard time deciding. Give each student or pair of students a role card. **(5 min.)**
- **4. Researching:** At this point, you should either bring students to the library or computer lab, or provide access to a computer cart and the resources you've collected for them. Reassure them they might not find answers to all the questions, but they should write any information that helps. **(30 min.)**
- **5. Preparing Arguments in Groups:** Have students meet with groups and take turns sharing the information they learned about their crop

- with each other. Give students the sentence starter, "If we were farmers, we would/would not grow this crop because \_\_\_\_\_\_," Ask them to have at least three reasons. If you have time, you might pass out chart paper and markers for students to draw a picture of the crop and list their three reasons. (15 min.)
- **6. Stand up If:** Explain that you're going to name a quality, and their group should stand up if it applies to them. Say things like, I'm a crop that thrives in cold weather. I'm a crop that is locally grown in our state. I'm a crop that is grown in our county. I'm a crop that is native to this land. I'm a crop that was historically grown in another country. I am often cooked into soups. I give you lots of vitamins and minerals. For each group that stands up, have the group members name their crop so students are able to compare and contrast the crops. Then play the same game with statements that make connections between the crops they studied and the students themselves, such as, I have eaten kiwis before, or I have never tried eggplant but I would like to, or Someone in my family cooks with carrots. (10 min.)
- **7. Sharing Arguments:** Have each group present why they would or wouldn't grow this crop, sharing their three reasons and visual, if they made one. **(20 min.)**

# REFLECTION

Have students discuss the following questions in small groups, then share with the class: (5 min.)

 What was the most interesting thing you learned about the crop you researched?

- What are the different factors a farmer should consider before growing a particular crop?
- If you were a farmer in our area, which crops would you grow and why?
- What is a crop you learned about today that you have experience with? What is a crop that you would like to try?
- If you were one of these crops, which one would you be and why?

### **ADAPTATIONS**

Variation: If you have a relationship with a farmer, you might assign groups particular local crops that they'll research. Arrange for the farmer to visit, bringing in the crops your students researched. Have the farmer explain why they chose those particular crops, what they like and dislike about growing them, how the crops did this growing season, etc.

**Garden:** Have the students plant the crops that they agreed would do well in their region in their school garden and observe them growing over time.

**Review from Prior Lessons:** For each crop researched, ask students which part of the plant people eat (i.e., carrots = roots; lettuce = leaves). Have students look at the colors of the crops they researched, and review the value of eating a rainbow of natural colors for overall health.

**Cooking:** After each group has presented, challenge groups to think about all the crops they learned about and how they might be integrated into a dish. Groups can share recipe

ideas and come up with a dish they'll make as a class, incorporating all ingredients.

**Field Trip Extension:** Plan a field trip to a local farm to learn about crops that are grown locally.

**Art Extension:** Show students sample Harvest of the Month posters, and have them create a poster for their chosen crop.

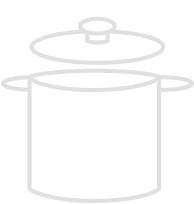
#### **ACADEMIC CONNECTIONS**

English Language Arts Common Core State Standards

# CCSS.ELA-LITERACY.RI.4.9

Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably.





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# **Group Role Cards**

HowIs Grown	١
What type of climate does this crop grow in?	
What USDA zone does this crop grow best in?	
How long does this crop take to germinate?	
How long does it take for the crop to grow before it's harvested?	
How Is Prepared and Eaten	1
What steps do you take to prepare this crop to be eaten?	
What are popular recipes that include this crop?	
What is the nutritional value of this crop? (What vitamins does it contain? Is it a go, glow, or grow food?)	
Does this crop have any other traditional uses?	
The History of	1
What country and/or region was this crop originally grown in?	
What people is this crop traditionally eaten by?	
When was this crop first introduced to our region?	
Is this crop currently grown in our region?	