## **Planting the Three Sisters**

**THEME:** GROWING AND ACCESSING HEALTHY FOOD



#### **ESSENTIAL QUESTIONS**

How are plants dependent on one another? How do we depend on one another?

#### LEARNING OBJECTIVES

- ✓ Students will be able to plant a garden bed and care for it through harvest.
- ✓ Students will be able to describe the method of interplanting known as The Three Sisters.
- ✓ Students will be able to explain how plants can depend on one another.

#### LESSON DESCRIPTION

In this lesson, students learn about the traditional Native American planting of The Three Sisters and the accompanying legend. Students then plant a Three Sisters bed, and, in groups they devise a creative retelling of the legend to share with other students. When teaching this lesson locally, it should be planned with and informed by local native and indigenous community input.

#### **MATERIALS**

- The Three Sisters' Roles Worksheet (p. 411) for each student
- Index card for each student
- Pencils
- The Three Sisters Poster (p. 412)
- Bag of props for students to use for their Three
  Sisters representations
- Corn starts, bean, and squash seeds (see Preparation)

- 3−5 trowels
- 3 watering cans
- Hose (for refilling watering cans)
- Paint stirrers (as plant markers)
- Permanent marker

#### **PREPARATION**

- Become acquainted with The Three Sisters legend, and consult with local native and indigenous communities for input on historical accuracy and cultural relevance.
- Research what native peoples lived in your region and, if relevant, learn what variation of The Three Sisters they grew (i.e., what variety of corn, beans, and squash).
- > Consult a local planting guide to make your selection. These crops should be planted after the threat of frost has passed. If garden programming is not in session in summer, you can plant popping corn, winter squash, and dry beans to be harvested in the fall (as opposed to sweet corn, summer squash, and pole beans).
- ➤ Because corn needs a head start from the beans and squash, plant the corn yourself two to three weeks ahead of your meeting with students, or have corn starts to plant along with the squash and bean seeds.
- Scout a location for your Three Sisters bed. You'll want it in a place that receives direct

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sunlight most of the day. There are many designs options for your bed, but a 3-foot round mound is a common practice, containing four corn plants, two bean plants, and one squash plant on the outside. If you have a large class, you might have each group plant one Three Sisters mound. But if you are teaching this lesson to more than one class, and your garden space is limited, each group within a class can plant one sister each.

#### **ACTION STEPS**

- 1. Storytelling: Gather students in a circle, and tell them the story of The Three Sisters. Explain, Native Americans tell a story of three sisters who love and support each other. There is the oldest sister, Corn, who grows very tall and lends support to her younger sister, Bean, who wraps herself around her older sister. Without Corn, Bean wouldn't have a place to climb and reach closer to the Sun. Bean helps her sisters by feeding food to the soil through her roots. Then there's the youngest sister, Squash, who's happy to stay close to the ground where she can fan her wide leaves out and bathe in sunlight from down there. She helps her sisters by shading the ground, keeping the earth moist with water, and preventing other weed plants from growing. Ask, Why do you think the three crops of food that Native Americans grow are called sisters? (5 min.)
- 2. Discussing Interdependence: Hand out an index card to each student. Explain, When you have a relationship with someone or something where you each depend on one another, that's called interdependence. Have students repeat the word, and ask, We have interdependence in our families: where else do we have

interdependence? Say, Think of someone you rely on. Describe in a sentence on your card how you depend on them. For example, maybe it's depending on a classmate to hold the door for you or a family member to take care of you when you're sick. Give students a moment to write their sentence, then say, Now turn your card over and write something you do to help that person. Have students share examples of the interdependence among their friends and family. (5 min.)

- 3. Explain: Pass out Three Sisters' Roles Worksheet, and show students the Three Sisters Poster. Go over the role of each sister crop, and have students match the roles to the crop on their worksheet. (5 min.)
- 4. Three Sisters Role Play: Explain to students that they'll get into groups to come up with a creative way of telling The Three Sisters story while groups take turns planting. Say, You can create a skit, and act out the roles of The Three Sisters; you can write a poem; or you can sing a song. Explain that they should have one person be the recorder for their group, and they'll be sharing their version with the class after everyone has planted. (25 min.)
- **5. Planting:** Call up one to two small groups at a time to help with planting. Demonstrate tool safety and proper planting techniques for the group before you pass out seeds or starts. Have each group water their plants and identify them with plant markers (8 min. per group)
- **6. Performing:** Gather students in a place where each group can present their story of The Three Sisters. (15 min.)

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#### REFLECTION

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

- What did you think was the most important point to get across in your retelling of The Three Sisters story?
- How do The Three Sisters crops depend on each other to grow and stay healthy?
- How do you depend on others to grow and stav healthy?
- What examples do you think we might see of interdependence among the three sisters crops?

#### **ADAPTATIONS**

**Cooking Extension:** Create a Three Sisters meal such as a stew or tacos with corn tortillas, zucchini, and beans.

**Nutrition Extension:** Adapt the 1st grade lesson Go, Grow, Glow to show how each of The Three Sisters is a go, grow, or glow food. Point out to students that eating the Three Sisters together provides all the nutrients we need, which further demonstrates the idea of interdependence.

**Flour Extension:** Have students shuck ears of corn, and use a grinder to turn the corn into flour.

**Graphic Novel Adaptation:** Instead of a skit, or in addition, have your students fold a piece of paper into eight equal sections and then create a cartoon or graphic novel depicting The Three Sisters and how they help one another.

**Sharing with Younger Students:** Have students share their retelling of the legend of The Three Sisters to younger grades who can help with tending the beds.

#### **ACADEMIC CONNECTIONS**

English Language Arts Common Core State
Standards

#### CCSS.ELA-LITERACY.W.3.3

Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.

#### CCSS.ELA-LITERACY.RL.3.2

Recount stories, including fables, folktales, and myths from diverse cultures; determine the central message, lesson, or moral and explain how it is conveyed through key details in the text.

Next Generation Science Standards, Disciplinary Core Idea

#### NGSS.LS2.A

Interdependent Relationships in Ecosystems The food of almost any kind of animal can be traced back to plants. Organisms are related in food webs in which some animals eat plants for food and other animals eat the animals that eat plants. Some organisms, such as fungi and bacteria, break down dead organisms (both plants or plants parts and animals) and therefore operate as "decomposers." Decomposition eventually restores (recycles) some materials back to the soil. Organisms can survive only in environments in which their particular needs are met. A healthy ecosystem is one in which multiple species of different types are each able to meet their needs in a relatively stable web of life. Newly introduced species can damage the balance of an ecosystem.

### The Three Sisters' Roles Worksheet

**Directions:** Match each plant with what it provides to its plant sisters.



**SHADE** 



**TRELLIS** 



**NUTRIENTS** 

# THE THREE SISTERS

