

Lesson 1 - Seed Saving
Standards:

Science (NGSS - Next Generation Science Standards):

1. **K-PS3-1 (Energy)** – This standard involves using evidence to explain that plants need light and water to grow. The lesson's focus on how seeds grow and the plant parts that develop aligns with understanding how plants obtain and use energy.
2. **K-ESS3-1 (Earth's Systems)** – Students will learn about native plants and their relationship with the land, promoting an understanding of the importance of biodiversity and conservation efforts.
3. **1-LS1-1 (Structure and Function)** – This standard addresses understanding the structure of plants and how their parts function. The lesson explicitly teaches plant parts through the dance (yoga stretch) and the seed identification game.
4. **3-LS1-1 (Structure and Function)** – This standard builds on understanding plant structures, and this lesson's activities like seed identification and matching card games support students' ability to describe the structure and function of plant parts.
5. **3-ESS3-1 (Earth's Systems)** – The connection between plant diversity, ecosystems, and conservation efforts (seed saving, native plants) ties into environmental protection and sustainability concepts.

Language Arts (Common Core State Standards - CCSS for ELA):

1. **CCSS.ELA-LITERACY.SL.K.1, SL.1.1, SL.2.1** – These standards involve participating in discussions by asking and answering questions. In the lesson, students participate in discussions after the video and matching card game, answering questions about seed sizes, plant parts, and native plants.
2. **CCSS.ELA-LITERACY.SL.4.1, SL.5.1** – This standard emphasizes engaging in collaborative discussions and presenting information. Students will discuss plant seeds, native plants, and plant parts in small groups and then share their insights with the class.
3. **CCSS.ELA-LITERACY.SL.K-5.5** – The students are expected to present information and ideas clearly, which they will do when describing the seed and plant relationships they explored in the lesson.

Mathematics (CCSS for Math):

1. **CCSS.MATH.CONTENT.K.MD.A.1** – This standard focuses on describing and comparing measurable attributes (e.g., seed size). The lesson asks students to identify seed sizes and compare them, integrating basic measurement concepts.
2. **CCSS.MATH.CONTENT.3.MD.B.4** – This standard involves generating measurement data and displaying it. Students may work with visual data when comparing seed sizes and colors during the seed game and matching cards.

Social Emotional Learning (SEL):

- **Self-awareness and self-management:** Students reflect on their favorite part of the activity, helping them understand their preferences and emotions, promoting emotional expression.
- **Social awareness:** The discussions on native plants and invasive species encourage empathy and awareness of how different species interact with the environment.