Theme: Fall in the Garden  
Grade Level: K-5th  
Time Required: 45 minutes  
Number of Students: 15-25

**SIX PLANT PARTS**

**Description**  
Students learn about the parts of the plant through song and exploration.

**Guiding Question**  
Where do vegetables come from?

**Big Idea**  
The vegetables we eat come from many different parts of the plant.

**Learning Objectives:**  
→ Students will learn the six plant parts and their functions

**Vocabulary:** Roots, Stems, Leaves, Flower, Fruits, Seeds

**Materials:**
- □ Plant parts poster (*Appendix A*)
- □ Music player or lyrics
- **K-2nd grade**
  - □ Edible plants that represent all six parts
- **3rd-5th grade**
  - □ Plant Parts worksheet (*Appendix B*)
  - □ Cutting board
  - □ Knives
  - □ Bowls and Forks

**Engage (5 mins)**  
Walk and Talk: Have students make two lines and talk to partner on the walk to the garden: Name fruits and vegetables you like and guess how they grow (i.e. on a tree, on a bush, underground)  
OR Have them take 1-2 minutes in the garden to talk to partner about this question.

**Explain (10 mins)**  
Plant Parts lesson with movements. Show students the motion for a plant part. Have them mimic the motion. Teacher explains the function. Let the class guess the name of the plant part.

<table>
<thead>
<tr>
<th>ROOTS</th>
<th>Squat down and put fingers down in dirt</th>
<th>Suck up water and nutrients from the soil and hold the plant in place</th>
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<tbody>
<tr>
<td>STEMS</td>
<td>Stand up tall with hands by sides</td>
<td>The “elevator”– carry food from the roots to the rest of the plant, act as spines that support the plant body</td>
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<tr>
<td>LEAVES</td>
<td>Put elbows next to body and reach arms and fingers out, Face the sun.</td>
<td>Convert the sun’s energy into food through photosynthesis</td>
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<tr>
<td>FLOWERS</td>
<td>Bring elbows and wrists together in front of the body with fingers out</td>
<td>Form seeds which produce a new plant, provide a site for pollination</td>
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<tr>
<td>FRUITS</td>
<td>Same motion as flower but bring fingers together to make a circle</td>
<td>Form once the flower is pollinated. The “seed suitcase” holds, nurtures, and protects the seeds.</td>
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<tr>
<td>SEEDS</td>
<td>Fingers twinkle down to the ground</td>
<td>Store energy needed to begin initial growth</td>
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**Song and Movement (5 mins)**
Sing “Roots, Stems, Leaves” by the Banana Slugs with the class. Optional: Play the CD along with it.

**Extend (21 mins)**

**K-2nd grade**
*Station 1: Taste Test – root, stem, leaves (7 mins)*
Have a volunteer cut up different parts of the plant and have students identify each vegetable and what plant part it is.

*Station 2: Taste Test – flower, fruit, seeds (7 mins)*
Have a volunteer cut up different parts of the plant and have students identify each vegetable and what plant part it is.

*Station 2: Matching game (7 mins)*
Have a volunteer hand out picture cards and assist with kids placing them in the right plant part category. Reinforce how that part grows and what its function is.

**3rd-5th grade**
Pass out plant parts worksheets. Give students time to identify fruits and vegetables growing in the garden for each plant part and record them. Assign one plant part to each student and have them harvest one vegetable (i.e. leaf: one piece of kale; fruit: one tomato; root: one beet). Have a salad making station and have a volunteer wash and cut the harvested vegetables. Serve a delicious plant parts salad to the class!

**Evaluate (4 mins)**
Gather back together and brainstorm examples of vegetable we eat for each plant part.

**Optional extension:** Coloring activity with the Plant Parts coloring sheet.

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**Curriculum Connections**

- **G2 Movement Skills:** Students demonstrate a variety of locomotor skills.
- **Science 2.LS2.2** The shape and stability of structures of natural and designed objects are related to their function(s). (K-2-ETS1-2)
- **Science 1.LS1.1** All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water and air. Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive and grow.
- **Science 5.PS3.1** The energy released from food was once energy from the sun that was captured by plants in the chemical process that forms plant matter.
Appendix A

6 Plant Parts

- Leaves
- Flower
- Stem
- Fruit
- Seeds
- Roots
## Six Plant Parts

<table>
<thead>
<tr>
<th>Roots</th>
<th>Steams</th>
<th>Leaves</th>
<th>Flowers</th>
<th>Fruits</th>
<th>Seeds</th>
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Name your Salad _________________________

Choose two words to **describe** how your salad tastes.

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