**Lesson Title: Parts of an Apple Tree**

**Grade: K-1**

**Objectives:**

* To learn the parts of an apple tree (roots, trunk, bark, branches, leaves, fruit, etc.)

**Standards:**

* K.1.1. Use all senses as appropriate to observe, sort and describe objects according to their composition and physical properties, such as size, color and shape. Explain these choices to others and generate questions about the objects.
* K.1.2 Identify and explain possible uses for an object based on its properties and compare these uses with other students’ ideas.
* K.3.1 Observe and draw physical features of common plants and animals.
* K.2.3 Describe in words and pictures the changes in weather from month to month and season to season.
* K.3.3 Describe and compare living plants in terms of growth, parts, shape, size, color and texture.
* K.M.1: Make direct comparisons of the length, capacity, weight, and temperature of objects, and recognize which object is shorter, longer, taller, lighter, heavier, warmer, cooler, or holds more.
* 1.3.1 Classify living organisms according to variations in specific physical features (e.g., body coverings, appendages) and describe how those features may provide an advantage for survival in different environments.
* 1.3.2 Observe organisms closely over a period of time in different habitats such as terrariums, aquariums, lawns and trees. Draw and write about observations.
* 1.3.3 Observe and explain that plants and animals have basic needs for growth and survival: plants need to take in water and need light, and animals need to take in water and food and have a way to dispose of waste.
* 1.3.4 Describe how animals’ habitats, including plants, meet their needs for food, water, shelter and an environment in which they can live.
* 1.3.5 Observe and describe ways in which animals and plants depend on one another for survival.
* 1.M.1: Use direct comparison or a nonstandard unit to compare and order objects according to length, area, capacity, weight, and temperature

**Materials/preparation:**

* Magnifying lens
* Packet for notes, clipboards, pencils
* String for branch length and piece of string that was cut to branch length in the spring
* scissors
* camera, ruler

**Sequence of activities/procedures:**

* During morning classroom lessons – Intro plant parts that we will observe.
* During visit at OEC:
  + Measure length of a selected branch (measured and marked in spring lesson)
    - Together with students, cut a piece of string the length of the selected branch.
    - Compare length of string with the one from the spring and determine how much the branch grew during the summer.
    - Display strings on apple tree bulletin board in classroom.
  + Observe and record by drawing and labeling parts of the apple tree
    - Students will have a page in their packet for drawing the tree
    - Together label the parts
      * Roots
      * Trunk and bark
      * Knuckle and crown
      * Branches, leaves
      * apples
  + Observe and measure apples
    - In packet, students will color an outline of an apple to match the apples we observe on the tree.
    - Take picture of apple with ruler to display with earlier pictures
  + Take picture of tree to display with earlier pictures

**Assessment/Closure:**

**Considerations:**