



Name \_\_\_\_\_

## **Math - Measurement: DIAMETER**

### **Comparison Activity:**

## **Our State Tree and Empress Trees**

Using information from the *Research Activity: Comparing Our State Tree to Empress Trees*, lead or assist students in the following activities.

### **Activity:**

Diameter / Tree Rings & Leaves

### **Materials:**

Sidewalk Chalk or pencil/pen

Measuring Tape or ruler

Pavement area: playground, empty parking lot, sidewalk or blank paper

### **Procedure: Tree Rings**

1. Represent the Diameter an Empress tree grows in its first year by drawing a circle 1 inch in diameter on the pavement or on a sheet of blank paper.
2. Label it as "One Year" - this represents the first Tree Ring
3. Continue marking and labeling diameter growth for additional years' Tree Rings (up to 10 years).
4. Repeat process for the diameter (Tree Ring) growth rate of Your State Tree.
5. Compare the diameter (Tree Ring) growth rates of the two trees.

### **Procedure: Leaves**

1. Draw a representation of the 36" diameter of a full grown Empress tree leaf.
2. Draw a representation of the diameter of your State tree's leaf.
3. Compare the size and shape of the two leaves.
4. Draw conclusions about the amount of oxygen each leaf can produce in comparison to the other.