**Content:** Circumference and Area of a Circle

**Instructor:** Christy Miller

**Materials:** graph paper, computers with Geogebra,

**Objective(s):** Students will:

-determine the ratio C/d (Cicumference/diameter)= pi using Geogebra or Sketchpad

-use hands-on techniques to explore from where the area formula for a circle comes

**CCSS Content:** 7.G.B.5

**CCSS Practice:** SMP 5 (Use appropriate tools strategically.)

**Warm-Up:** Introduce/Use Geogebra to explore the relationship between circumference and diameter, linking the activity to using a string to find circumference and diameter. Use the ratio C/d (Cirumference/diameter) to discover pi.

**Lesson Body:** “Orange Ya Glad We’re Finding Circumference and Area?” Activity (attached)

**Closing (for CAMP):** Discussion on this lesson including 1) how it could be improved via UDL 2)how it could be improved for teachers’ student make-up 3) how SMP was addressed.

**Assessment:** Exit Ticket

1. A goat in a grassy pasture is tied to a stake with a 17 foot rope. Find the area of the grass the goat is able to eat.
2. What is the most interesting thing about today’s lesson?
3. Why is it important to understand the formula for the area of a circle?