**Content:** Find Net and Surface Area of Right Cone

**Instructor:** Christy Miller

**Materials:** large paper, scissors, tape, tape measure, calculator

**Objective(s):** Students will be able to 1) draw the appropriate net for a right cone 2) find the surface area of a right cone 3) (possibly) find the volume of a right cone

**CCSS Content**

[CCSS.Math.Content.7.G.B.4](http://www.corestandards.org/Math/Content/7/G/B/4/)
Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

[CCSS.Math.Content.7.G.B.6](http://www.corestandards.org/Math/Content/7/G/B/6/)
Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

[CCSS.Math.Content.8.G.C.9](http://www.corestandards.org/Math/Content/8/G/C/9/)
Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.

*\*\*\*Are nets of cones intended for high school?\*\*\**

**CCSS Practice:** SMP 1 – Make sense of problems and persevere in solving them.

SMP 2 – Reason abstractly and quantitatively

**Warm-Up:** (for CAMP) – Launch after lunch includes discussion of nets of different figures made during the morning launch.

**Lesson Body:** See attached activity. (Party Hat)

**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 was SMP was addressed.

**Assessment:** Exit Ticket

1. What is a net?
2. How can we link nets to volume?
3. What formula can we use to 1) find the surface area of a right cone 2) find the volume of a right cone?