

## General Education Math Lesson Plan

### Measurement: Surface area of a cone

**Source:** Bennett, J.M., Burger, E. B., Chard, D. J., Hall, E., Kennedy, P. A...Waits, B. W. (2011). *Mathematics*. Austin, TX: Holt McDougal

**Standard:** 7.GM.1h2 Find the surface area of three-dimensional figures using nets of rectangles or triangles

7-8.NO.3c1 Use the rules for mathematical operations to verify the results when more than one operation is required to solve a problem

7.GM.1h3 Find the area of plane figures and surface area of solid figures

**Learning Outcome:** Students will find the surface area of a rectangular prism using nets

**Materials:** paper, pencil,

#### Activities:

- Focus and Review: Have students review the definition of a net and how it is used to find surface area
  - Lecture: Teacher works through a variety of problems finding the surface area of rectangular prisms
  - Guided Practice: Students work in pairs to complete 10 problems from their math textbooks
  - Independent Practice: Students work 5 word problems using real-world application. Students are expected to pull essential facts from the story to fill in equation for area.
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#### Activity: Create a universally designed version of the above lesson

UDL Planning	My ideas
Representation- adaptations in materials (e.g., adapt for sensory impairments)	
Expression- how will student show learning (e.g., use of assistive technology; alternative project)	
Engagement- how will student participate in the activity	