

**Your Name:** KTunstall

**Lesson Plan Title:** Measurement

**Lesson Plan Concept / Topic:** Finding surface area

**Targeted Grade Level(s):** 7

**NC Standards Course of Study Objective(s) Addressed:**

2.02 Solve problems involving volume and surface area of cylinders, prisms, and composite shapes.

3.01 The learner will understand and use properties and relationships in geometry. Using three-dimensional figures: A. Identify, describe, and draw from various views (top, side, front, corner).

**General Goal(s):** The learner will understand and use measurement involving two- and three-dimensional figures.

**Specific Lesson Plan Objectives:** Upon completion of this lesson, students will: (1) be able to explain what surface area means; (2) correctly use the terminology used with surface area; (3) have experimented with the surface area of different shapes

**Required Materials:** Computer, Handout, centimeter grid paper, ruler, tape

**Vocabulary:** *surface area – a measure of square units needed to cover the outside of a figure*

**Anticipatory Set (Lead-In):**

Ask: How can we find the area of a two-dimensional figure?

Do you think that it is possible to find the area of a three dimensional figure?

Who can tell me what a three dimensional figure is?

**Step-By-Step Procedures:**

Start Alice World titled Measurement. Students will identify the following figures; circle, square, triangle, rectangular prism, triangular prism, cube, cone and cylinder presented in the Alice World. *Clicking each figure will cause it to rotate. The triangle in Alice is a little 3-D students are to disregard this.* As each shape is displayed students will complete the first two columns of the handout for each shape.

Students will go through the world completing the activities.

Give students centimeter grid paper and have them to trace and cut individual parts that can be used to cover their entire textbook.

Students should then use the tape to assemble the faces to create a net. Use the net to determine the surface area of the book.

**Closure (Reflect Anticipatory Set):** Whole group discussion of the findings, surface area of textbook. Once the students have been allowed to share what they found, summarize the results of the lesson.

**Assessment Based On Objectives:**

- 1- Completed 1<sup>st</sup> two columns of chart of shapes.
- 2- Completed net with surface area of textbook correctly determined.

