Subject (grade): WA 20

Lesson Title: Area & Volume

Teacher: Nicholas Ciarciaglini (Mr. Ciarciaglini)

Timeframe:

60 Mins

Desired Results:

Objectives/Outcome(s)/Indicator(s):

WA20.3 Extend and apply understanding of surface area, volume, and capacity using concrete and pictorial models and symbolic representations (SI or imperial units of measurement).

Key Understanding ('I can' statements):

1. I can use the formulas:
    a. To find the area, and surface area.
    b. To find the volume
2. I can work on my own project.

Assessments:

In this lesson I will be assessing:

Assessment of Learning (*Formative*): I will be assessing the student's work on their projects that is the appearance of their project. (**See Rubric WA20**)

Assessment of Learning (*Summative*): I will be assessing the math behind (Area and Volume) the final product of their project. (**See Rubric WA20**)

Procedures:

1. The students will be measuring their two mediums.
2. Then they will figure out the area and volume of their object.
    a. In their First Medium
        i. Find the Area.
        ii. Find the Volume.
    b. In their First Medium
        i. Find the Area.
        ii. Find the Volume.

Additional Procedures:

If students finish, they can do it quietly collect data from other students to create graphs. Please see lesson 4: Collecting Data.

Materials:

The students will need the following document:

- Worksheet 2
- Their Product.

Yourself (teacher) will need:

Nothing

Resources:

Chapter Three of the textbook: Surface Area, Volume, and Capacity.

3.1: Surface Area of Prisms

3.2: Surface Area of Pyramids, Cylinders, Spheres & Cones

3.3: Volume and Capacity of Prisms and Cylinders

3.4: Volume and Capacity of Spheres

How to go about using Microsoft Word or Google Docs to insert equations:

Creation of a Font

Adaptions/ Differentiations:

Some adaptations/differentiations for this lesson:

- Allowing students to type up their Projects inside Word or Docs.
- If students need more time to finish their plan give them that extra time to work on it.
- Look at examples from the textbook about finding Surface Area & Volume.

Management Strategies:

Here are some management strategies for this lesson:

- If the students are fooling around and not Focusing on their own Project tell them:
    - They will not get any more class time to work on their projects.