Subject (grade): WA 10

Lesson Title: Perimeter, Area, Volume, & Mass

Teacher: Nicholas Ciarciaglini (Mr. Ciarciaglini)

Timeframe:

Introduction:

5 - 15 minutes

Desired Results:

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

WA10.1 Demonstrate understanding of the preservation of equality including solving problems that involve the manipulation and application of formulas related to:

- Perimeter
- Area
- the Pythagorean Theorem

- primary trigonometric ratios
- income.

WA10.11 Demonstrate understanding of income including:

wages

- commissions
- gross pay

salary

piecework

net pay.

contracts

self-employment

Key Understanding ('I can' statements):

- **1.** I can log all my hours.
- **2.** I can find different measurements of their objects.
- **3.** I can bring the materials to create my project.
- **4.** I can design my word to in a creative way.

Assessments:

In this lesson I will be assessing:

Assessment of Learning (*Formative*): I will be assessing the student's time, going into figuring out their project (perimeter, area, volume, & mass).

Assessment of Learning (*Summative*): I will be assessing the student's calculations that they do in their project, and how accurately they do their math.

Please see the WA10 Rubric

Procedures:

- 1. They will have 15 minutes a day in class for 5 days (1 hr 15 min) at the beginning or end of class to figure out the calculations.
 - a. Perimeter

c. Volume

b. Area

- d. Mass
- 2. They will log all of their minutes working on their project.

Additional Procedures:

Please see Lesson 4: Converting.

Materials:

The students will need the following document:

 Worksheet 1: Perimeter, Area,
Volume & Mass Worksheet 3: Timecard Laptop (if they want to do it online)

Volume, & Mass.

 Worksheet 2: Converting

Workbook

Yourself (teacher) will need:

• Signing their timecard.

Resources:

Chapters Three & Four of the textbook: Length, Area and Volume & Mass Temperature, and Volume.

- 3.1 System of Measurements
- 3.3 Surface Area
- 3.4 Volume
- 4.2 Mass in Imperial
- 4.3 Mass in Système International

They will need if they decided to do this project in Minecraft.

<u>Creation of a font (https://yarnbender.ca/home/e-portfolio/edtc-educational-technology-media/edtc-400/final-curricular-project-creation-of-a-font/)</u>

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

<u>Creation of a font (https://yarnbender.ca/home/e-portfolio/edtc-educational-technology-media/edtc-400/final-curricular-project-creation-of-a-font/)</u>

Adaptions/ Differentiations:

Some adaptations/differentiations for this lesson:

- Allowing students to type up their plans 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 Perimeter, Area, Volume, & Mass.

Management Strategies:

Here are some management strategies for this lesson:

- Have a 15-minute timer to allow the students to work on their projects.
 - Tell them if they do not work on their projects they will lose marks.