Lesson: Introduction to Trigonometry

Subject: Geometry

Grade: 9-10

Teacher: Pearl Hinlo

Estimated Time: 30 mins

# Goal:

**Introduce students to basic trigonometric functions using ratios between the sides of right triangles.**

# CA Standard:

**18.0** Students know the definitions of the basic trigonometric functions defined by the angles of a right triangle.

**Objective:**

Students will be able to find trigonometric ratios using right triangles

**Prerequisite Skills:**

a. Basic knowledge of ratios and the parts of a right triangle

**Materials:**

Notebook, pencil, Lesson 8-4 worksheet, scientific calculators, projector, whiteboard.

**Lesson:**

a. The lesson begins with a power point presentation introducing the concept of

trigonometry. (*In today’s lesson we will learn the meaning of trigonometry, the 3*

*basic trigonometric ratios and how it was used by the mathematicians who*

*developed the concept*.)

b. The lesson will incorporate audio, video, and problem solving aspects.

c. Students will be asked questions during the power point presentation

e. Method:

* + 1. Watch the power point lesson.
    2. CFU questions during power point lesson.
    3. Hand out the worksheet and calculators.
    4. Guided practice: Students will practice finding the sine, cosine, tangent ratios.
    5. The class will briefly discuss the correct sequence of keystrokes

in their calculators to find the sine, cosine and tangent values

* + 1. CFU questions.

**Closure:**

* 1. Cover the check for understanding questions.
  2. Ask for final questions.
  3. Give the students their exit pass.
  4. Tomorrow we will solve real life problems using trig ratios!!!

**Reflection**

a. Did the students learn trigonometric functions today?

b. Was the objective met?

c. Did the students understand the worksheet?

* 1. Can anything be cut out of or added to the lesson to make it more efficient?
  2. Was the objective focused enough to make this an effective lesson?