

Lesson Plan

Grade/Class	TEN	Date	2/11/19
Topic	APPLICATION OF TRIGONOMETRY RATIOS	Time	50 MINUTES
Unit title	TRIGONOMETRY	Designer	PAMELA SARFO

Lesson Outcomes

Essential Understandings

The students will know:

- The sine, cosine and tan formulas
- How to get the angles and length in geometry problems using the sine, cosine and tan formulas.
- How to use second tan.

Essential Questions

- When is the appropriate time to use sine, cosine and tan?
- Can you use them anytime you want?

Curricular Outcomes

The student will be able to:

- Apply the trigonometry ratios in solving geometry problems.

Cross-Curricular/Real World Connections

- A triangle has three sides.
- The longest side of a triangle is the hypotenuse. For a ladder attached to a wall, the ladder then becomes the longest side.

Materials (ICT considered)

Materials needed are;

- Smartboard presentation on applying trigonometry ratios
- Booklet printed already
- Video on SOHCAHTOA as review for previous lesson.

(<https://youtu.be/t2uPYYLH4Zo>)

Differentiation Strategies

Consider cultural diversity, adaptations, and groupings

- I will go around as students solve some questions after my examples.
- Students who still have issues with the concept will be sorted out by me.

Assessment of Evidence

Assessment **FOR** learning
Students will help me in solving the examples on the smartboard.

Assessment **AS** learning
Students will be asked to solve the next examples by themselves while I go around to check their understanding.

Assessment **OF** learning
Students will be formally assessed on the application of trigonometry by answering the chapter review questions.

Learning Plan

<p>Activating</p> <ul style="list-style-type: none"> • Students will solve the mental maths of about 6 questions on the board to refresh their mind. • Then they will watch the video for SOHCAHTOA as review. • Now the smartboard presentation on applying trigonometry ratios will begin. 	<p>Timeline</p> <p>35mins</p>
<p>Acquiring</p> <p>Students will be asked to solve the other examples by themselves.</p>	<p>5mins</p>
<p>Applying</p> <p>In applying, students will be asked to solve the review questions of the chapter in their book.</p>	<p>10mins</p>
<p>Reflections about the lesson:</p>	