

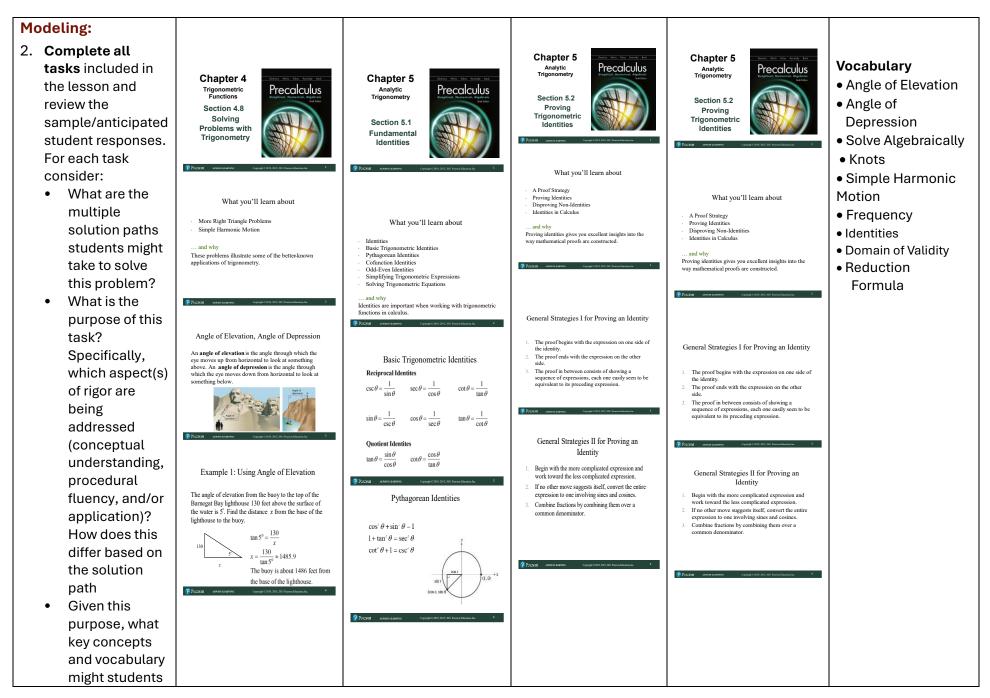
# Math Weekly Lesson Preparation Guide

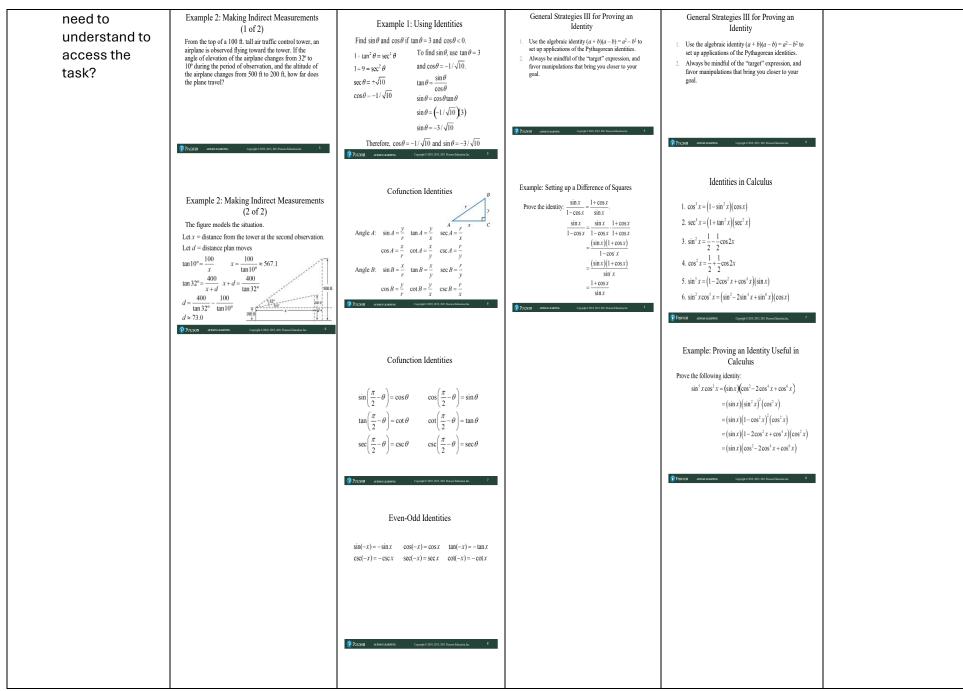
Teacher Name: Kimberly West	Grade: 11 <sup>th</sup> /12 <sup>th</sup> Precalculus
Week of: February 24 <sup>th</sup> thru 28 <sup>th</sup>	Unit: 5 Lesson Numbers: 4.8 Solving Problems with Trigonometry
	5.1Fundamental Identities
	5.2 Proving Trigonometric Identities

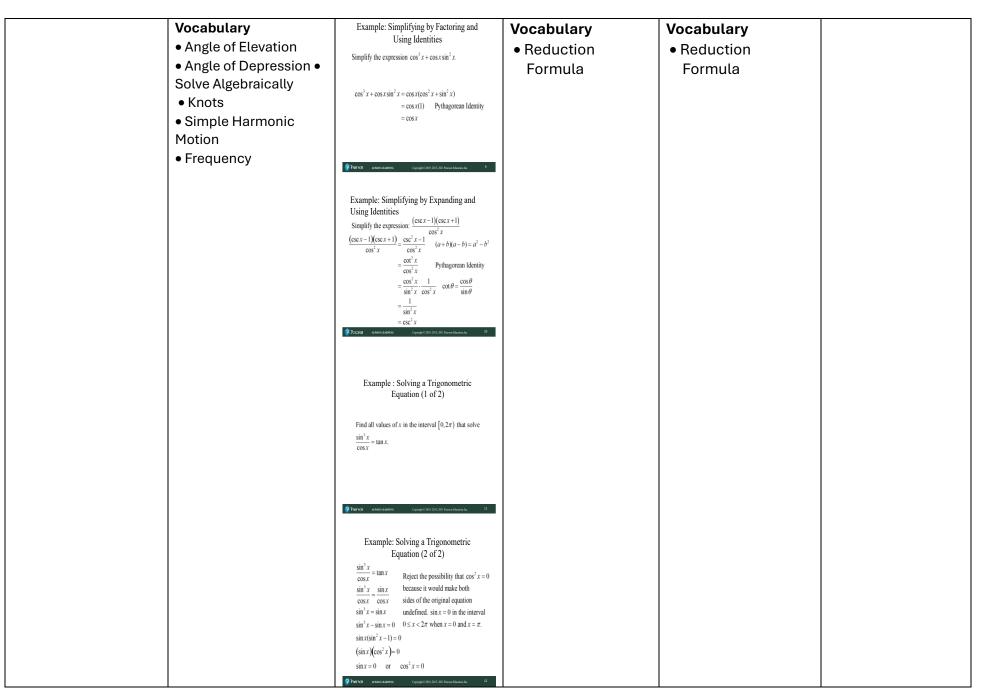
Purpose: The Weekly Lesson Preparation Guide is to provide a structure that encourages teachers to think through and internalize the daily/weekly instructional expectations.

Planning Questions	Monday Lesson 4.8	Tuesday Lesson 5.1	Wednesday Lesson 5.2	Thursday Lesson 5.2	Assessment OR Remediation
<ol> <li>Which specific Tennessee standard(s) are being addressed in this lesson? What is the focus of this lesson? What will the lesson objective be for each day?</li> </ol>	<ul> <li>P.G.AT.A.1 Use the definitions of the six trigonometric ratios as ratios of sides in a right triangle to solve problems about lengths of sides and measures of angles.</li> <li>Objective: I can determine the angle of elevation/depression and distance using right triangles.</li> </ul>	<ul> <li>P.G.TI.A.1 Apply trigonometric identities to verify identities and solve equations. Identities include :</li> <li>Pythagorean, reciprocal, quotient, sum/difference, double-angle, and half- angle.</li> <li>Objective: I can simplify trigonometric expressions using basic trigonometric identities.</li> </ul>	<ul> <li>P.G.TI.A.1 Apply trigonometric identities to verify identities and solve equations.</li> <li>Identities include: Pythagorean, reciprocal, quotient, sum/difference, double- angle, and half-angle.</li> <li>Objective: I can prove an algebraic or trigonometric identity.</li> </ul>	<ul> <li>P.G.TI.A.1 Apply trigonometric identities to verify identities and solve equations.</li> <li>Identities include : Pythagorean, reciprocal, quotient, sum/difference, double-angle, and half- angle.</li> <li>Objective: I can prove an algebraic or trigonometric identity.</li> </ul>	<ul> <li>P.G.AT.A.1 Use the definitions of the six trigonometric ratios as ratios of sides in a right triangle to solve problems about lengths of sides and measures of angles.</li> <li>P.G.TI.A.1 Apply trigonometric identities to verify identities and solve equations. Identities include: Pythagorean, reciprocal, quotient, sum/difference, double-angle, and halfangle.</li> </ul>

#### Adapted from TDOE Unit and Lesson Preparation Guides







		<b>Vocabulary</b> • Identities • Domain of Validity			
3. What <b>specific</b> <b>tasks/problems</b> will you use to reveal understanding of the grade-level standard(s)? (refer to the Instructional Focus Document Evidence of Learning Statements)	*Selective Practice Problems from pages <b>403-404</b> *Look and listen for proper steps and vocabulary used to explain each step in the problem solving process	*Selective Practice Problems from pages <b>403-404</b> *Look and listen for proper steps and vocabulary used to explain each step in the problem solving process	*Selective Practice Problems from pages 411-412 *Look and listen for proper steps and vocabulary used to explain each step in the problem solving process	*Selective Practice Problems from pages <b>411-412</b> *Look and listen for proper steps and vocabulary used to explain each step in the problem solving process	
Additional Considerations					
If your lesson contains homework, how will you utilize the work? Will you need to send scaffolding notes home? Is there a strategy you can use to maximize homework?		Homework will be utilized by: Align with Learning Objectives: Ensure that homework directly relates to the concepts taught in class, allowing students to apply their learning. Variety of Tasks: Include different types of problems (e.g., practice, application, extension) to cater to various levels of understanding and	Homework will be utilized by: Align with Learning Objectives: Ensure that homework directly relates to the concepts taught in class, allowing students to apply their learning. Variety of Tasks: Include different types of problems (e.g., practice, application, extension) to cater to various levels of	Homework will be utilized by: Align with Learning Objectives: Ensure that homework directly relates to the concepts taught in class, allowing students to apply their learning. Variety of Tasks: Include different types of problems (e.g., practice, application, extension) to cater to various levels of	

to reinforce the concept from	understanding and to	understanding and to
multiple angles.	reinforce the concept from	reinforce the concept from
Scaffolded Problems: Start	multiple angles.	multiple angles.
with easier problems and	Scaffolded Problems:	Scaffolded Problems: Start
gradually increase difficulty.	Start with easier problems	with easier problems and
This helps build confidence	and gradually increase	gradually increase difficulty.
and understanding before	difficulty. This helps build	This helps build confidence
tackling more complex tasks.	confidence and	and understanding before
Extension Challenges:	understanding before	tackling more complex
Include a few challenging	tackling more complex	tasks.
problems that encourage	tasks.	Extension Challenges:
critical thinking and	Extension Challenges:	Include a few challenging
exploration beyond the basic	Include a few challenging	problems that encourage
concepts.	problems that encourage	critical thinking and
	critical thinking and	exploration beyond the
	exploration beyond the	basic concepts.
	basic concepts.	