Unit 10: Trigonometry Law of Science & Cosines

<table>
<tr><th></th><th>4 – Mastery</th><th>3 – Proficient</th><th>2 - Basic</th><th>1 – Below Basic</th><th>0 – No Evidence</th></tr>
<tr><td>Prove addition and subtraction formulas for sine, cosine, and tangent and use them to solve problems (F.TF.9)</td><td rowspan="2">Can extend thinking beyond the standard, including tasks that may involve one of the following:<br><br>• Designing<br>• Connecting<br>• Synthesizing<br>• Applying<br>• Justifying<br>• Critiquing<br>• Analyzing<br>• Creating<br>• Proving</td><td>Prove the addition and subtraction formulas for sine, cosine, and tangent and use the addition and subtraction formulas to solve <u>identities</u></td><td><u>Prove the addition and subtraction formulas for sine, cosine, and tangent</u> and use them to solve numerical problems</td><td>Use the addition, subtraction, and tangent formulas to solve numerical problems</td><td rowspan="2">Little evidence of reasoning or application to solve the problem<br><br>Does not meet the criteria in a level 1</td></tr>
<tr><td>Prove the law of sines and cosines and use them to solve problem (G.SRT. 10 )<br><br>Understand and apply the law of sines and cosines to find unknown measurements in right and non-right triangles (G.SRT.11)</td><td>Apply the Law of Sines and the Law of Cosines to find unknown measurements in oblique triangles <u>and interpret solutions in context of real-world situations</u></td><td>Apply the Law of Sines <u>and</u> the Law of Cosines to find unknown measurements in oblique triangles</td><td>Apply the Law of Sines <u>or</u> the Law of Cosines to find unknown measurements in oblique triangles</td></tr>
</table>