

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**BLM 4-16**

## Chapter 4 Task Rubric: Design Word Problems Using Trigonometry

Categories	Level 1	Level 2	Level 3	Level 4
<b>Knowledge and Understanding</b> <ul style="list-style-type: none"> <li>Provides solutions for the problems designed by classmates.</li> </ul>	Demonstrates limited understanding of trigonometry, making many major errors in the solution.	Demonstrates some understanding of trigonometry, making minor errors in the solution.	Demonstrates considerable understanding of trigonometry, correctly solving the problems.	Demonstrates thorough understanding of trigonometry, correctly and completely solving the problems.
<b>Thinking</b> <ul style="list-style-type: none"> <li>Prepares a plan to design and solve the word problems.</li> <li>Carries out the plan.</li> </ul>	Needs extensive assistance to begin organizing a plan and needs clearly laid out steps to follow.	Needs some assistance to begin organizing a plan and needs some steps to follow.	Needs minimal assistance to organize and implement an effective strategy.	Needs no assistance to organize and implement an effective strategy.
<b>Communication</b> <ul style="list-style-type: none"> <li>Clear explanations and full justification of solution.</li> <li>Correct use of mathematical language.</li> </ul>	Maintains the correct units in some of the solution. Does not clearly explain or justify solution.	Maintains the correct units throughout most of the solution. Explains and justifies solution somewhat.	Maintains the correct units throughout the solution. Explains and justifies solution fully.	Maintains the correct units throughout the solution. Explains, justifies, and shows insight into the complexities of the solution.
<b>Application</b> <ul style="list-style-type: none"> <li>Designs four word problems with the conditions as stated.</li> </ul>	Designs one or two simple problems satisfying some of the conditions.	Designs three or four simple problems satisfying most of the conditions.	Designs four simple problems satisfying all of the conditions.	Designs four complex problems satisfying all of the conditions.