

Task

Surveying a ropes course

The P.E. department is considering designing a ropes course outside. Before they can do this, they need to know the heights of and distances between various tall objects. They need you, the surveyors, to apply your knowledge of trigonometry to calculate these distances indirectly. You will be working in small groups of 3 or 4 students each. You will be given a set of guidelines listing criteria for a ropes course. After calculating measurements of the required objects and distances, you will prepare a report that describes the landscape and evaluates the feasibility of a ropes course. Your product must meet the following standards: completeness, accuracy, and thoroughness of interpretation.

Rubric for Surveying a Ropes Course

Name _____

Criteria	9	6	3	
Measurements	<i>All necessary measurements taken and labeled with units</i>	<i>Some of the measurements taken and labeled with units</i>	<i>Many measurements missing, no units labeled</i>	
Diagrams	<i>All required diagrams complete and accurate</i>	<i>Some diagrams complete and accurate</i>	<i>Diagrams incomplete or missing</i>	
Calculations	<i>All necessary calculations are shown, and accurate</i>	<i>Some calculations are unclear with mistakes</i>	<i>Many calculations incorrect or missing</i>	
Conclusion	<i>Question about feasibility answered and supported with evidence</i>	<i>Question about feasibility answered with insufficient evidence</i>	<i>Question about feasibility not answered or little support given</i>	
			Total	(/36)