**Trigonometry Exploration NAME:**

**Task 1:**

*Follow your team leader as you will find the width of the River Kumor. You are not allowed to set foot in the river as there are dangerous gators in the river. The more accurate you are the better!*

***Tools:*** *rope, tape measure, tape, cone, pencil, calculator, protractor, and a positive attitude!*

*Width of River: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Points Earned: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Task 2:**

*As a group you will need to determine the angle of elevation of each set of stairs in the auditorium. Determine which set of stairs is steeper. The more accurate the better!*

***Tools:*** *tape measure, calculator, and some teamwork*

*Stair Case 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Stair Case 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Points Earned: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**Task 3:**

*Use the tape measure to determine the height of a person in the balcony (to their eye level).. Use the height and the angle of depression to see how far the “X” is from the balcony. Again, accuracy counts!!!*

***Tools:*** *tape measure, calculator, inclinometer, and think SAFETY FIRST!!!!*

*Distance From Balcony: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Points Earned: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*