CASTNER PROJECT
(HEIGHT OF OBJECTS)

Driving Question:
How can you use geometry to measure objects of extreme height?

Objective:
Given a survey, you must create a analytical report from the data.

The report must feature the following:

1. Measure the angle of elevation of objects using instruments

2. Record distance from objects using measuring tape

3. Use trigonometry to solve for the height of objects

Resources:

PART 1:
- Assign roles of measurer, observations, and scribe in your group

MEASURER:_____

OBSERVATIONIST:_____

SCRIBE:_____

- Find distance and angle of elevations from around the campus as a class within groups

PART 2:
- Perform calculations back in classroom using calculators

- Organize data into report that explains useful purposes of trigonometry in real world settings.

OBJECT/LOCATION	***DISTANCE FROM OBJECT***	***ANGLE OF ELEVATION***	***HEIGHT OF OBJECT***
EX. Height of Classroom	**(USE MEASURING TAPE)**	**(USE PROTRACTOR)** $90^o - \_\_\_\_^o = \_\_\_\_\_$	**(USE CALCULATOR)** $\tan(\_\_\_\_^o) = \frac{\_\_\_\_x\_\_\_\_}{\text{Distance from obj.}}$ ****ADD HEIGHT OF PERSON**.**
HEIGHT OF BUILDING			
TREE			
STADIUM LIGHT			
BASKETBALL GOAL			
MOUNTAIN			