

Trig Outdoor Activity of FUN

Alg 2 Honors Activity- Make Hypsometer before starting	
Questioner(Walkie):	Measurer(GPS, ruler):
Recorder(Paper):	Angler(Protractor):

FIRST: Measure the height of the Angler's eyes in your group.

Angler's eye height: _____

Mission 1: Find the distance to the water tower.

1. The height of the water tower is 180 feet.
2. Sight the angle to the weather vane on the water tower and record it.

Data:

Angle Measure: (Your angle) - 90° = The Angle of Elevation

Angle of Elevation- _____

Mission 2: Find the height of a tree.

Mark with a flag where you begin your distance measurement. Measure with a measuring tape first. Measure the same distance with a GPS.

- Was the GPS accurate at this distance?
- What kind of distance do you think the GPS is more accurate with?

Find a tree. Describe what the tree looks like and where it is so I can find it myself. Now let's find the height of the tree. **Description:**

1. Sight the angle to the top of the tree and record it.
2. Find your distance to the tree and record it.

Data:

Angle of Elevation- _____

Distance to the tree- _____

Mission 3: Find the height of a football light.

Will you use the GPS or the measuring tape?

1. Find a football light and sight the angle to the top of it and record it.
2. Find the distance to the lights and record it.

Data:

Angle of Elevation- _____

Distance to the lights- _____

Doing Roles _____ (10 pts)
Data Collected _____ (15 pts)
Work Shown _____ (15 pts)
Correct Work _____ (10 pts)
TOTAL _____ (50 pts)

