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

**Outdoor Locus Treasure Hunt**

**Supplies**

1 tape measure (at least 25 feet)

Surveyor Flags

Football Field Sketch

Pen/Pencil

**Directions**

1. **Find the locus of points 25 feet from the goal post. Use the surveyor flags to map out this condition (only use the flags on the grassy area).**

**Sketch this condition on the football field map provided.**

1. **Find the locus of points 19 feet from the goal line. Use the surveyor flags to map out this condition.**

**Sketch this condition on the football field map provided.**

1. **Find the locus of points equidistant from the two sides of the first M in the end zone.**

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**Sketch this condition on the football field map provided.**

1. **On the football field map, place an X on the location of the treasure.**

**RUBRIC**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **5** | **4** | **2** |
| **Participation** | **Student was actively engaged in the activity during the entire period.** | **Student was actively engaged in the activity for part of the period.** | **Student was not actively engaged in the activity during the period.** |
| **Accuracy** | **Football field map accurately included all three locus conditions with a correct X for the location of the treasure.** | **Football field map included all three locus conditions and an X for a location of the treasure, however, included 1 or 2 errors.** | **Football field map did not include all three locus conditions**  **OR**  **a location of the treasure**  **OR**  **had 3 or more errors.** |
| **Deadline** | **Student handed in project on time.** | **Student handed in project 1-2 days late.** | **Student handed in project 3-5 days late.**  **\*Students who hand in a project more than 5 school days late will not receive any points for the category.** |