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.**  |