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**Minnesota School Forest Program**

**Lesson Title: Trail Camera Placement**

**Name:** Karl Kauffmann

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**School Forest:** Pillager School Forest

**Grade(s):** High School

**Materials:** GPS units, Landview on computer, trail cameras

**Objective(s):** To gather comparative data of animal activity and plant species to on-the-ground management techniques. Students will pay special attention to cover types, age class, edge vs. interior species.

**Procedure:**

See assignment below for students

**Note:** if you are using Garmin eTrex20’s, you will need to convert latitude/longitude to UTM coordinates.

* Press **Menu**
* Select **Setup**
* Select **Position Format**
* Select position format **hddd.mm.mmm’**
* Scroll down to **UTM UPS**

Edit the attached worksheet to best meet your classroom needs.

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**Trail Camera Placement Assignment**

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

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

1. Use “Landview”

Pull the aerial photo for the forest; locate cover type, age class features. Drop points for camera placement. Record UTM coordinates.

2. Easting:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Northing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Enter the UTM coordinates above into your GPS unit

4. Go to that spot in the forest. Mount the camera there.

5. Take new exact GPS coordinates. Name the waypoint.

6. Take pictures of location.

7. Mark approximate location on map.

8. Print aerial photo and attach it to your field notes. Include on-the-ground photos/description of location.

Traverse recording tips

Reminders:

1. Work your traverse quickly and accurately. Take long lines out sight around the edge of your harvest area.
2. At each point in your traverse…your field data should record as normal and the UTM coordinate.

Example data table:

| **Side** | **Coordinates** | **Azimuth** | **Distance** |
| --- | --- | --- | --- |
| **AB** |  | 127 degrees | 51 paces |
| **Point A** | IST 0386792, UTM 5131593 |  |  |
| **BC** |  | 228 degrees | 32 paces |
| **Point B** | IST 0386587,UTM 5131429 |  |  |
| **CD** |  | 281 degrees | 84 paces |
| **Point C** | IST 0386621,UTM 5131528 |  |  |

1. Mark your grouse locations