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Collecting Data with GPS

Introduction: The Global Positioning System (GPS) provides location information in all weather conditions, anywhere on Earth where there is a signal to three or more GPS satellites. Three satellites are needed to determine latitude and longitude coordinates, while a fourth is needed to determine elevation. Since the GPS system relies only on satellite signals, it does not require telephone, wifi, or internet reception!

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The US government created this system of 24 satellites for military uses but it is now freely accessible to anyone with a **GPS receiver**. Most cell phones are now made with tiny GPS receivers installed; however, this feature may be turned off because it can use up bandwidth when on.

Directions:

- 1.) Use a GPS unit to find and record the **latitude and longitude coordinates** of FIVE different locations in the park. Record the values in the table below.
 - Press the power button (Inext to light) to turn on your GPS unit.
 - Use the thumb joystick ③ to scroll down to **satellite**. Gently PUSH the joystick in to select this option
 - You may need to wait a few minutes for the GPS receiver to detect at least three satellites.
 - Record simple information about the location in the Notes column. (Ex: bench, large tree, etc.)

Site	Latitude	Longitude	Notes
1	42.693781	-77.953048	Maplewood Lodge
2	42.73213	-77.905547	Mt. Morris Dam
3	42.741986	-77.882917	Mt. Morris Entrance
4	42.584607	-78.045246	Falls Area
5	42.602242	-78.02202	Big Bend

2.) When done, press the **power button** ⑤ for a few seconds to turn OFF your GPS unit.