

Navigation: Where Am I Going

➤ Waypoints – Points or locations stored in GPS receiver

The main purpose of navigation is to be able to get from point A to point B as easily as possible. You can also revisit a favorite spot by storing the location in your receiver and navigate back to it later. If you have never been to a place, but know its coordinates or where it is on a map, you can create waypoints of those places you have never been to and navigate your way (or GOTO) to that spot.

➤ GOTO – Receivers ability to guide you to a destination

The GOTO feature allows you to select a destination point and tell your GPS to “go to it.” The unit will draw a straight line to that point and guide you there with a pointer arrow, compass bearing (the direction to the point), and desired course line. When you are navigating to a specific place, the GPS always keeps track of where you are, where you are going, how fast you are going, how far away you are from your destination, and how long it will take you to get there.

Let’s get started!

Each group has a GPS receiver. Seven locations have been stored in your GPS receiver. Your task is to:

- ✓ locate each of the seven destination points
- ✓ find the brass medallion at each point and
- ✓ retrieve the information written on each one

Step One: Take turns getting familiar with using the receiver. Always place the strap of the receiver around your neck before you start. This minimizes the risk of dropping it and also helps you navigate easier by always holding the receiver horizontally (flat with the land).



GPS Receiver

Step Two: There are two buttons on the right side of the receiver. The bottom one is the **POWER** button. Turn the receiver on by holding the power button down for two seconds. You will see the **Welcome Page** then the **Satellite Page**. The receiver is locating the satellites. When you have at least three satellites, the receiver will read, **Ready To Navigate** as well as the **Accuracy: i.e. 42 ft**. The more satellites you see on the receiver, the better the accuracy.

Step Three: The top button on the right side of the receiver is called **PAGE**. This allows you to move from one screen to the next. Press the Page button once-What do you see? This is the **Map Page**, but we will not be using it today. Press the **PAGE** button again. The **Pointer Page** has an internal compass and arrow to show you the direction to go toward. Press the **PAGE** button for the third time and you will see the **Menu Page**. The **Menu Page** has the following operations: **Mark, Waypoints, Route, Tracks, Setup, Time & Date**. For our exercise today, we will only be using the **Mark** and **Waypoints**.

Step Four: There are three buttons on the left side of the receiver. The top two buttons are called the **SCROLL (or Up and Down)** buttons that help you to scroll up and down on a Page. **SCROLL** down to the **Waypoints** Field. It should now be highlighted.

Step Five: The last button we will learn about is on the left side of the receiver, just below the **SCROLL** button. It is the **ENTER** button. Go ahead and press the **ENTER** button once now. It will open the **Waypoints** Field. Highlight 0-9 in the left column by pressing the **ENTER** button. Now the right column should be highlighted. Using the **SCROLL** button, you can select any number that will help you to locate a specific point you would like to find. For this exercise we will be using number 4. Select number 4 and press **ENTER**. You are now on the **Review Waypoint Page**.

Step Six: Select **GOTO** and press **ENTER**. Once you select **GOTO**, the receiver will guide you to the destination using the **Pointer Page**. Follow the direction of the arrow and continue moving in that direction until the arrow points to the top of the compass ring. If the arrow points to the right, go to the right, if it points to the left, go to the left, if it points behind you, turn around and follow the arrow. At the top of the **Pointer Page** you will see how far you are from your destination. (3 feet is equal to about 1 meter).

Repeat the steps above until you have located all seven destinations and collected the information on all seven medallions. **DO NOT** remove the medallions from their locations. Have a great time!

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1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Optional-Bonus

Write down the latitude, longitude and elevation of each location as shown on your GPS receiver.