

North Carolina Lighthouses GPS Project



Timeline:

1. Reserve GPS devices.
2. Teacher begins teaching lessons on the coastal region of North Carolina. Animals, Industry, History, etc.
3. Begin focus on the importance of lighthouses to the coastal region in history and today.
4. View United Streaming segments on GPS. (Earth Science: Mapping of Earth)
5. Use Google Earth to learn about latitude and longitude. Refer to Google Earth NC Lighthouse Activity handout.
6. Pick up GPS devices and charge batteries.
7. Discuss appropriate shoes and clothing for the activity day.
8. Have a training day to teach the students how to use the GPS device. Take half of the class outside to practice using the buttons on the device and to walk to see how the latitude and longitude changes. The other half of the class will work on the NC Lighthouse Online Scavenger Hunt. The groups then switch places to experience both activities.
9. Create caches. Refer to handout NC Lighthouse Caches.
10. GPS Activity Day:
 - Hide the caches and mark them ahead of time.
 - Students work together in groups to find the caches and record their answers on the waypoint sheet. Refer to Lighthouse Waypoint Sheet.
 - Materials needed: clipboards, waypoint sheets, pencils, GPS devices, caches.
11. Do follow-up activities. Examples: Place lighthouses in correct location on map of NC (Refer to NC Lighthouse Map Activity), research NC lighthouses and create a lift-the-flap booklet (refer to Lift-the-Flap Lighthouse Activity), create models of lighthouses (Refer to Lighthouse Craft).