



«[Science Lesson Plans](#)

## Hydrosphere Review GPS Activity

Published on July 30, 2009 by Connie Thomsen

### Description

This lesson is intended to be a fun review of the hydrosphere to use prior to a unit test or MAP testing. The clues require math skills of multiplication by up to 1 digit by 3 digit and subtraction and/or addition of three digit numbers. Prior to this lesson the student will need to already have been trained or used the GPS handheld unit.

### Grade Level

5th

### Lesson Objective

The student will be able to:

- Successfully answer questions based on prior knowledge of the hydrosphere.
- Solve math problems of multiplication, addition, and subtraction.
- Operate a handheld GPS Unit.
- Record their experiences in their science journal

### GLEs

#### Science GLE's

Strand 5: 1.B.a.

Strand 5: 1.B.b.

Strand 5: 2..E.a.

Strand 5: 2..E.b.

Strand 5: 2..F.a.:

Strand 5: 2..E.b.

### Depth of Knowledge

Level 1

### Instructional Strategies

Direct instruction on use of GPS and decoding clues

Group work on GPS location of waypoints.

### Time Needed

3 sessions

### Materials

3 GPS units

Clues

Answer recording sheets-one for each student

Student journals

**Academic Vocabulary**

See glossary attachment

**Lesson Plan**

Day One:

Introduce GPS unit using smartboard and/or ELMO.

Group students (for this activity it would be wise to have a diversity of math and science ability within the group)

Give the class a sample clue using the letter/number code sheet and each group will solve the clue.

As a group discuss the answers. Make sure that each group was able to understand the clues and able to successfully decode the clue.

Practice recording answer on the recording sheet.

Practice finding the waypoints on the GPS unit.

Repeat clue and GPS practice as necessary until each group understands.

Day Two:

Groups will do activity on playground during recess. 3 groups with 4<sup>th</sup> grade, then 3 groups with 5<sup>th</sup> grade. Students will told not to share information.

Students will record their adventure – problems/successes in their journal

Day Three

Class will discuss activity as a group.

**Assessment:**

Students will be assessed on their completed answer sheet and their thoughtful entry into their science journals.

**Resources**

 [GPS Student Instructions](#)

 [GPS Glossary](#)

 [GPS Recording Sheet](#)

 [GPS Clues](#)

 [GPS Map](#)

**Literature links**

E

**Text book link(s)**

1

**Key concepts:** [hydrosphere](#) [GPS](#)

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