

Lesson 5 – Teaching Directions, Maps, and Coordinates

Directions and Maps

Part 1: Directions

Supplement to Step 1

- Print an example of a compass wheel (*compass_wheel.pdf*)

Supplement to Step 4

- Print instructions on how to use a compass (*compass_instructions*)

Part 2: Maps

Supplement to Step 1

- Print a section of a topographic (topo) and matching aerial photo map (*aerial_topo_maps*)

GPS Units

Part 2: Latitude and Longitude Lines and Using GPS Units

Supplement to Step 4

- Print “How to use a GPS unit” (*Global_Positioning_System.pdf*)

Part 3: Mapping the Schoolyard with GPS Units

- Print “Mapping the Schoolyard” (*mapping_the_schoolyard.pdf*)
 - Page 1 - shows a schoolyard “built” by the students
 - Page 2 – notice the bleachers are larger than the school....discuss “scale” issues with the class
 - Page 3 – students have taken their GPS locations and are using a grid as a guide to measure where their objects should be placed.