



Map Like a Pirate at Home Learning

Standards application	<p>SS.3.G.1.1 Use thematic maps, tables, charts, graphs, and photos to analyze geographic information</p> <p>SS.3.G.1.2 Review basic map elements (coordinate grid, cardinal and intermediate directions, title, compass rose, scale, key/legend with symbols).</p>
Purpose	Students will learn basic map reading skills and learn how to find objects on a coordinate grid.
Materials	<p>Map with coordinate grid overlay https://www.floridastateparks.org/sites/default/files/media/file/Manatee%20Springs%20Real%20Florida%20Guide.pdf</p> <p>ruler</p> <p>Map worksheet</p> <p>Colored pencils</p>
Background (please read to students)	<p>Cartography is the art and science of map making. Maps have been one of the most important human inventions for thousands of years. People have created and used maps to help them define, explain, and navigate their way through the world. Earliest archaeological maps include cave paintings to ancient maps of Babylon, Greece, China, and India.</p> <p>Before the age of GPS availability on a phone or other hand-held device, the only way to navigate the roads on a trip was by using a paper map. Your parents and grandparents used the coordinate grid on a map to locate the towns they were traveling to, rather than Google maps directions.</p>
Activating Prior Knowledge	<p>What does your family use to get directions when on a trip?</p> <p>What would you do if you did not have any battery left or it was not working?</p>
Instructions for Activity	<p>Show students the map.</p> <p>Have students identify the legend:</p> <ul style="list-style-type: none"> • What do the different colors indicate? • What do the different symbols indicate? • Have students take turns locating each area in the legend on the map. <ol style="list-style-type: none"> 1. Have students identify the compass rose <ul style="list-style-type: none"> • Ask: What does the compass rose mean on a map? • Share the acronym “Never Eat Soggy Waffles” to help remember the relationship of cardinal directions. • Point out North, South, East, West and intermediate directions such as Northeast and Southwest • Ask: Using the map, can you identify where North is? 2. Have students identify the scale. <ul style="list-style-type: none"> • Ask: How do you use the scale on the map? • Using the ruler, measure the scale and then use that measurement to determine distance from the cities of Chiefland to Fanning Springs. • Have students use the scale to measure other distances on the map of their choosing.



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	<p>3. Ask: What other things do you notice on the map?</p> <ul style="list-style-type: none">• Roads, rivers, cities, parks, ponds, lakes, conservation areas, etc. <p>Ask students: “How could you explain to someone where one of these features are if you were not standing right next to them to point it out?”</p> <ol style="list-style-type: none">1. Point out the coordinate grid. Point out the numbers/ letters along the x and y axis of the grid<ul style="list-style-type: none">• Locate Manatee Springs on the map.• Ask: How can we explain in what box Manatee Springs is located?• Show students how to use lettered columns on X axis and numbered rows on Y axis to identify the box.• Explain that the coordinate is LETTER and then NUMBER.2. Repeat with other locations such as other cities, parks, conservation areas, etc. <p>Say: If you were a pirate burying your treasure, you would want to make a very detailed and accurate map so that you could send your crew back later to retrieve your treasure. Cartographers, or map makers of today, also must make accurate maps. Sometimes book authors will include fictional maps to help the reader understand the relationship of locations in the story. Even your school uses maps to help visitors find classrooms or identify emergency routes for fire drills.</p> <p>You are going to draw a map. It can be of your home, school, or even a make-believe land. You need to have a title, legend, and compass rose (already on worksheet). After you are finished drawing the map with areas that are identified in the legend, you will use coordinates from the grid on the map to record locations.</p> <p>Hand out map worksheet and colored pencils</p> <ol style="list-style-type: none">1. Point out the letters and numbers grid on x and y axis.2. Point out the legend box that they will use to make their maps.3. Ask students to draw a map of their home, school, or even make-believe.4. Tell them to create a legend that included explanations for parking lots, roads, water features, buildings, forests, open areas, etc. like those on the map. They should have at LEAST 5 items in the legend.5. After they have completed the map, record at least 5 locations using the coordinate pairs.6. Give your map to someone in your household and see if they can understand it, finding the gridded locations.
Connecting activity to standards application	Using elements of a map such as the legend, coordinate grid, compass rose, cardinal directions, and scale makes maps more accurate and useful to the user.