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Cache a GPS and Map it in your Notebook

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Cache a GPS and Map it in your Notebook

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Grade Level (Req.): 8th	Content Area (Req.): Language Arts/ Geography	Unit (Opt.): Technical Reading/ Writing
Connections to Other Disciplines (Opt.): <ul style="list-style-type: none"> • Technical Reading • Technical Writing • 		
Time Frame (Req.): 2-3 class periods	Goal (Req.): The students will use technology, reading, writing, and geography to locate a cache and make a map for others to follow to find the same cache.	
	Objective (Req.): The students will learn how to properly use a GPS device. Students will use latitude and longitude points to locate a cache while taking notes. Students will write up directions and construct a map on how other students can find the cache.	
Materials Needed (Req.): <ul style="list-style-type: none"> • GPS device • written instruction guide/booklet • teacher placed cache • coordinates for students to locate cache • instructions- verbally given by teacher • notebook • 	New Vocabulary (Opt.): <ul style="list-style-type: none"> • cache • GPS- Global Positioning System • • • 	
Anticipatory Set/Introduction [Inquiry Question is required] (Req.): Have you ever wanted to hunt for treasure? Do the terms “coordinate points” or “GPS” mean anything to you? If not, you are going to learn a lot today. If you do know the meaning of these words, I will throw in one more for all of you. Have you ever heard the term “cache” before today? Would you like to find a cache? Let’s examine what these terms mean.		
Instructional Sequence/Procedure (Req.): <ol style="list-style-type: none"> 1. Provide students with a GPS device. 2. Provide students with the booklets explaining how to use the device. 3. Give students the anticipatory set. 4. Give students the longitude and latitude points where the cache is hidden. 5. Have students take notes as they search for the cache. 6. Have students write up directions for other students to follow to find the cache. 7. Have students construct a map to show the way to the cache. 8. 9. 10. 11. 12 		

<p>15. 16. 17. 18. 19. 20.</p>	
<p>Formative Evaluation (Req.): Monitoring students as the utilize their GPS devices, listening to their conversations, and checking for their understanding by reading what notes they are taking.</p>	<p>Assessment (Req.): Students wil turn in their written directions and their map to be graded by the teacher.</p>
<p>Iowa Core Curriculum Standards Used (Req.):</p> <ul style="list-style-type: none"> • GE 1., Grades 6-8: Understand the use of geographic tools to locate and analyze information about people, places, and environments. • • • • • • • • • 	
<p>Common Core Curriculum Standards Used (Opt.):</p> <ul style="list-style-type: none"> • • • • • 	
<p>NGS Standards Used (Req.):</p> <ul style="list-style-type: none"> • 1. How to use maps and other geographic representations, tools, and technologies to acquire, process, and report information from a spatial perspective. • 3. How to analyze the spatial organization of people, places, and envrionments of Earth’s surface. • • • • • • • • 	
<p>Five Themes of Geography Used (Req.):</p> <ul style="list-style-type: none"> • Location • Place • Human-Envrionmental Interaction • 	<p>School District Standards and Benchmarks (Opt.):</p> <ul style="list-style-type: none"> • • •

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21 st Century Universal Constructs (Opt.):	
Other Disciplinary Standards (Opt.): • • • • •	
Other Essential Information (Opt.):	
Other Resources (Opt.): • • • •	