GPS/Geocaching Lesson Plan

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| Grade Level: | **8th** | Subject: | Pre-Algebra | Prepared By: | **Angelia Franke** |

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| Overview & Purpose Identify geometric shape and find perimeter and areaUse geospatial technology to locate waypoints | Education Standards AddressedPASS Standards 3.1, 4.1, 4.3 |

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| Objectives(Specify skills/information that will be learned.) | * Measure distances
* Operate a GPS to locate places and collect data
* Use formulas to calculate perimeter and area
 | Materials NeededPaperPencilClipboardGPSCraft sticksYarnMeasuring tapeWorksheet |
| Information(Give and/or demonstrate necessary information) | * Review GPS operating procedures
* Discuss differences in perimeter and area
* Review 2 dimensional figures
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| Verification(Steps to check for student understanding) | * Worksheets
* Locate caches using a GPS
 | Other Resources(e.g. Web, books, etc.) |
| Activity(Describe the independent activity to reinforce this lesson) | * Locate caches using a GPS
* Following directions to create a 2 dimensional figure
* Using tape measure to measure length and width
* Calculate perimeter and area
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| Summary | Larger 2 dimensional figures could be constructed by having students stand at the vertices where the caches are hidden.  | Additional Notes |