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 area  Use geospatial technology to locate waypoints | Education Standards Addressed PASS 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 Needed Paper  Pencil  Clipboard  GPS  Craft sticks  Yarn  Measuring tape  Worksheet |
| Information (Give and/or demonstrate necessary information) | * Review GPS operating procedures * Discuss differences in perimeter and area * Review 2 dimensional figures |
| 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 |
| Summary | Larger 2 dimensional figures could be constructed by having students stand at the vertices where the caches are hidden. | Additional Notes |