ACTIVITY SHEET

TEAM MEMBER: Eileen H. Balajadia

INTERDISCIPLINARY UNIT: Cultural Diversity

GRADE LEVEL: 7th Grade

SUBJECT: Math

NAME AND DESCRIPTION OF ACTIVITY:

**Geometry Town Project**

This activity allows students to act as an architect by designing a town square given different shapes.

STUDENT LEARNING OUTCOMES (SLOs):

* The student uses geometry to model and describe the physical world.
* The student will use geometric concepts and properties to solve problems in fields such as art and architecture.

COMMON CORE STANDARDS:

**7.G.1  Solve problems involving scale drawings of geometric figures,  
including computing actual lengths and areas from a scale drawing  
and reproducing a scale drawing at a different scale  
  
  
7.G.2 Draw (freehand, with ruler and protractor, and with technology)  
geometric shapes with given conditions. Focus on constructing  
triangles from three measures of angles or sides, noticing when the  
conditions determine a unique triangle, more than one triangle, or no  
triangle**

SUPPLEMENTARY READING MATERIALS AND INTERNET SOURCES TO EXTEND STUDENTS’ UNDERSTANDING OF THE CONTENT:

http://love2learn2day.blogspot.com.au/2012/12/angles-learning-in-degrees.html

https://www.khanacademy.org/math/geometry/basic-geometry

http://www.math-only-math.com/images/comparing-types-of-quadrilateral.jpg

RUBRIC TO EVALUATE THE LEARNING OUTCOMES:

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| **Designing Town Square Scoring Guide:**  **1**. **Measurements (Steps One and Two):**   * Shapes and formulas correctly identified * Area calculations correct. * Students accurately figure out the scaled measurements \_\_\_\_\_\_\_\_\_ (out of 40 points)   **2**. **Completeness of Project:**   * At least four roads (10 points) * At least five buildings (10 points) * Name of Town on Project (5 points) * Scale included (5 points) \_\_\_\_\_\_\_\_\_ (out of 30 points)   **3. Overall Effort:**   * Work shows creative thought in design. * Attention is given to detail. * Overall product is neat, colorful and visually pleasing.   \_\_\_\_\_\_\_\_\_ (out of 30 points) |