ACTIVITY SHEET

TEAM MEMBER: Eileen H. Balajadia

INTERDISCIPLINARY UNIT: Cultural Diversity

GRADE LEVEL: 7th Grade

SUBJECT: Math

NAME AND DESCRIPTION OF ACTIVITY:

**Heirloom Geometry:**

**In this activity students will bring an heirloom (artifact) to class from home or they can research an artifact online that has geometric features.   This lesson with further develop the students understanding of plane figures, transformations and represent mathematics in multiple ways.**

STUDENT LEARNING OUTCOMES (SLOs):

* Students will further develop their understanding of plane figures.
* Students will demonstrate understanding of transformations.
* Students will represent mathematics in multiple ways.

COMMON CORE STANDARDS:

**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://teachers.yale.edu/curriculum/viewer/initiative\_10.04.05\_u
* <http://www.youtube.com/watch?v=_K_OqcU8p28>
* http://www.learnnext.com/nextgurukul/wiki/concept/CBSE/VII/Maths/Rotational-Symmetry.htm

RUBRIC TO EVALUATE THE LEARNING OUTCOMES for HEIRLOOM GEOMETRY:

|  |  |  |  |
| --- | --- | --- | --- |
| Category | Unsatisfactory | Satisfactory | Excellent |
| Listing of Geometric Characteristics | Student did not list any geometric characteristics. | Student listed some characteristics but was incomplete. | Student provided at least 5 characteristics for both individual and partner lists of geometric characteristics. |
| Calculation of angles and symmetry observation. | Student did not calculate angles correctly and did not mention if object was symmetrical or not. | Student miscalculated angle but was able to inform if object had a line of symmetry. | Student was able to provide measurement of angles and observation of symmetry. |
| Reflection | Student did not provide any details on heirloom and geometric observations. | Students provided basic information of heirloom and some geometric observations. | Student was able to reflect on heirloom using details with geometric description and provide and background on heirloom. |