



TEACHER PAGE
Lesson: Equilateral Triangles
Teacher-Author: Lorri Alonzo
ASSET Animator: (Joyce) Duangrat Viriyaampaivong

New Arizona Math Strand 4 Geometry and Measurement Grade 5
4M51-04 Identify the properties of two- and three-dimensional geometric figures using appropriate terminology and vocabulary. **4M51-07** Classify triangles as scalene, isosceles, or equilateral.

Old Arizona Math Standard 4 Geometry **Grades 4-8**
4ME2-PO2 Classify triangles by their angles and sides (e.g., equilateral, acute, isosceles. . .)

Learning Objectives: Students will be able to:

- define equilateral triangle
- explain congruent
- select equilateral triangles from a description

Overview and Content:

Equilateral triangles are defined and illustrated. Other triangles are shown for comparison so students will understand the unique feature of the equilateral triangle. The attributes of closed polygon, 3 equal sides, and 3 equal interior angles describe this triangle. Congruent is used to describe the 3 equal sides and 3 equal angles.

Engage Students:

Can students spot the important attributes of triangle shapes from a pile of paper triangles? Can they place the triangles in groups according to the classification of side length and interior angle?

Follow-up:

Equilateral triangles are used extensively in Navajo rugs. Check this out. SO WHAT! has a print activity in make patterns with equilateral triangles. What do acute triangles, obtuse triangles and right triangles have in common and how do they relate to each other? Find out in DIG DEEPER. In TALK ABOUT IT! visit the web site. The illustration is be analyzed and written about in a Math Journal (not online).



Assessment:

Students make equilateral triangles in the SHOW section. There is an online ruler to help.