TEACHER PAGE
Lesson: Lines/Congruency with Rikki
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New Arizona Math Strand 4 Geometry and Measurement   **Grade 2.4**
Articulated 4M41-06 Identify congruent geometric shapes; **4M21-02** Recognize congruent shapes.
Old Arizona Math Standard 4 Geometry Foundations 1   **Grade 1-3**
4MF1-PO1 Identify two-dimensional shapes by name and attribute

Materials and Bibliography:
Attribute and pattern blocks. URL - http: www.proteacher.com
The Shapes Game by Sian Tucker and Paul Rogers

Learning Objectives: The student will be able to:
1.name and recognize two-dimensional shapes
2.analyze the attributes that constitute two-dimensional shapes
3.recognize and differentiate congruent shapes.

Overview:
Rectangles are everywhere. Rectangles that are the same size and shape are called congruent – an important concept in geometry. Different sizes of rectangles also lend beauty and structure to our world. This lesson has English, Navajo and Spanish narrations and scripts. Spanish/English math dictionary: www.math2.org/math/spanish/eng-spa.htm

Engaging Students:
Play a game called "name the Size." Rules: any rectangle smaller than student desktops is called "little," any rectangle larger than a desktop is called "big," and any shape that is the same size and shape is called "congruent." Give five points for non-congruent rectangles. Give ten points for congruent rectangles. Divide the class into teams of 6 students. Each team takes turns and names the item and says whether it is congruent or not. The teams have 30 seconds to answer.

Follow-up:
Students choose shapes in their environment that are congruent and not congruent. Practice identifying rectangles around the school and explaining their attributes. Research the use of congruent rectangles in ancient temples and cathedrals.

Assessment:
Students must mark congruent shapes on worksheets correctly, demonstrating knowing the difference between rectangular shapes that are congruent and not congruent in SHOW and TALK ABOUT IT!

Teacher Note:
The congruency part of this lesson applies to the Arizona 4M41-06 articulated standard. Also, there are 6 Non-Congruent and 4 Congruent shapes in the final activity of SHOW.