



TEACHER PAGE

Lesson: Magician Squares Teacher-Author: Mary Jo Kelsey ASSET Animator: (Joyce) Duangrat Viriyaampaivong

New Arizona Math Strand 4 Geometry and Measurement Grades K, 1
Articulated: 4MK1-O1 and 4M11-O2 Identify two-dimensional shapes by attribute (size, shape, number of sides, vertices).

Old Arizona Math Standard 4: Geometry, Foundations Grades 1-3
4MF1-PO1 Identify two-dimensional shapes by name and attribute.

Learning Objectives: The student will be able to:

- label a square using the correct word
- distinguish the word square from other “shape” words

Overview:

This lesson concentrates on students having practice at connecting the word square with an actual square. TALK ABOUT IT is a partner activity during which students will talk about the square shapes in the classroom. Students playing checkers will reinforce the concept of square shapes being used. Geometric shapes have form with straight lines—polygons—rather than blobs. This lesson has English, Navajo and Spanish narrations and scripts.

Engage Students:

Arrange for a magician to visit class. Among the tricks, the magician would just happen to make a square appear (possibly out of a hat), spell out the word square; make it go inside the square. In the possible event of not securing a magician, the teacher could substitute – on video so the impossible is possible – and play it for the class.

Follow-up:

- Teacher places a box of shapes (especially squares) somewhere in the classroom. From this box students will examine, construct, sort and sequence shapes while connecting them to the appropriate words.
- Research: Where does the word “abracadabra” come from? Does anyone in the class or school practice magic tricks? What other unusual words do magicians use? How many squares do you see at home or outside on the ranch?
- Students research examples of objects and pictures for all the terms relating to shape in this lesson.
- Classmates play checkers and count the squares. Research other games that use a board with squares. Students draw their own game boards to use.

Assessment:

Students will demonstrate distinguishing the shape and labeling a square correctly with the word square (SHOW). In the TRY section, students have to distinguish between several “shape” words to select the correct one.

