



# TEACHER PAGE

## Lesson: Vertices with Rikki

Teacher-Author: Donna Miller

### ASSET Animator (Joyce) Duangrat Viriyaampaivong

**New Arizona Math Strand 4 Geometry and Measurement Grades 1, 2**  
**Articulated 4M11-01** Use the words vertex and side when describing simple two-dimensional geometric shapes; **4M11-04** Name common two-dimensional shapes (square, rectangle, triangle and circle), **4M21-01** Compare attributes of two-dimensional shapes (square, rectangle, triangle and circle).

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

**Learning Objectives:** the student will be able to:

- Name two-dimensional shapes
- Recognize two-dimensional shapes
- Analyze attributes that constitute two-dimensional shapes
- Demonstrate understanding vertex

#### Overview:

If you tell someone to turn right at the corner or that a store is on the corner of 35<sup>th</sup> and Bethany, that person has to understand vertex. In mathematics vertex becomes vertices (plural). Rikki discovered he has vertices and counts his sides, vertices and angles (introduced). Students will be able to understand the concepts of vertex and angle as well as identify and recognize a vertex and angle. Students complete a chart showing the number of sides, vertices and angles.

#### Classroom Management:

When lining up students should form different shapes and point out the shapes' vertices.

#### Engaging Students:

Take a walk around the school. Choose someone to be a record keeper. They are to make a tally of each time the class finds a vertex. The class stops each time they find a vertex for all to agree.

#### Follow-up:

Give each student a worksheet with many different shapes. Students are to mark every vertex and every angle. Students are to find all the vertices in the classroom.

#### Assessment:

Students will chart Rikki's vertices, sides and angles.

