

Module [6] Understanding: Analyze, Compare, Create and Compose Shapes	Grade level: Kindergarten (Shaded standard(s) are the focus standard(s) for this module.)
Subject Area: Math	Time Frame: 3 Weeks
Designed By: Kindergarten Instructional Team	Beginning Date:
School: Morrilton Primary School	Ending Date:
Stage 1 – Desired Results	
Standards: (Text in bold indicates changes/additions in wording of new Arkansas standards.)	
<p>K.CC.A.4 Understand the relationship between numbers and quantities; connect counting to cardinality.</p> <p>When counting objects:</p> <ul style="list-style-type: none"> • Say the number names in the order, pairing each object with only one number name and each number with only one object (one to one correspondence). • Understand that the last number name said tells the number of objects counted. • Understand that each successive number name refers to a quantity that is one larger. <p>(Students should understand that the number of objects is the same regardless of their arrangement or the order in which they were counted.)</p> <p>K.G.B.4 Analyze and compare 2-D and 3-D shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/ "corners") and other attributes (e.g., having sides of equal length). (NOTE: 2-D shapes: squares, circles, triangles, rectangles, and hexagons - 3-D shapes: cube, cone, cylinder, and sphere)</p> <p>K.G.B.5 Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and by drawing shapes.</p> <p>K.G.B.6 Compose two-dimensional shapes to form larger two-dimensional shapes. (For example, join two squares to make a rectangle or join six equilateral triangles to form a hexagon.)</p>	
Goal(s):	
Sort shapes by attributes. Identify 2D and 3D shapes in real world. Use 2-D shapes to form larger 2-D shapes Connect numeral to quantity Describe relative position using ordinal numbers	

Goal(s): conti.-

Compare & contrast shapes of different sizes/orientations

Identify ordinal positions

Create models of 2D & 3D shapes

Draw 2D shapes

Represent a quantity with a numeral

Essential Question(s):

Explain defines a shape?

Demonstrate how you can sort shapes by attributes (number of sides, vertices, sides of equal length)?

Can you describe and explain what defines a shape?

Demonstrate how you can construct/build a shape?

Illustrate how you can draw a shape?

Can you give examples how you can use shapes to make new shapes?

Can you explain what number to write to show a quantity?

Can you explain what ordinal number to use to describe relative positions?

Construct a bigger 2-D shape from a smaller 2-D shape?

Students will know...

- Sides and Vertices (square, triangle. Hexagons)
- Squares
- Triangles
- Hexagons
- Rectangles (attributes 2-long & 2-short)
- Circles
- 2-D shapes
- 3-D shapes
- Ordinal Positions (1st-10th)
- Number quantities

Students will be able to...

- identify different shapes regardless of size, orientation, or position
- build models of 2-D and 3-D shapes
- **draw 2-D shapes and use those to construct bigger 2-D shapes**
- write a number for quantities represented
- use ordinal language to identify position(s)

Stage 2 – Acceptable Evidence

Performance Tasks:

- identify different shapes regardless of size, orientation, or position
- build models of 2D and 3D shapes
- draw 2D shapes
- write a number for quantities represented
- use ordinal language to identify position
- Interactive Smartboard lessons

Other Evidence:

- Teacher Observation
- Formal Assessments
- Demonstration
- Oral Explanations

Stage 3: Part 1 – Weekly Learning Plan

Week	Activities/Lessons	Assessments	Materials	CCSS
35	<ul style="list-style-type: none"> • Compare and Contrast Attributes using concrete shapes (2-D and 3-D) that include squares, circles, triangles, rectangles, hexagons, cube, cone, cylinder and sphere. • Explain and Demonstrate • <u>Icky Bug Shapes</u> 	Week 35 Formative Assessment	<ul style="list-style-type: none"> • 2-D and 3-D shapes (manipulatives that are both wooden and plastic) 	<ul style="list-style-type: none"> • K.CC.B.4 • K.G.B.4 • K.G.B.5 • K.G.B.6
36	<ul style="list-style-type: none"> • Build shapes using materials • Graphing with candy (3-D) • <u>Twizzler Math</u> • Play dough Creations (2-D & 3-D) 	Week 36 Formative Assessment	<ul style="list-style-type: none"> • Pretzel sticks • Small marshmallows • Twizzlers • Toothpicks • Tootsie Rolls • Bugles, Hershey Kisses • Caramels, Whoppers, Cheese Cubes • Play Dough 	<ul style="list-style-type: none"> • K.CC.B.4 • K.G.B.4 • K.G.B.5 • K.G.B.6

37	<ul style="list-style-type: none"> Make a different shape using other shapes i.e. (2 squares = 1 rectangle) (2 trapezoids = 1 hexagon) (2 triangles – 1 square) (2 semi-circles = 1 circle) <u>The Shape of Things</u> 	Week 37 Formative Assessment	<ul style="list-style-type: none"> 2-D shapes manipulatives Attribute blocks Geo boards w/bands Pattern Blocks Sidewalk Chalk 	<ul style="list-style-type: none"> K.CC.B.4 K.G.B.4 K.G.B.5 K.G.B.6
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Stage 3: Part 2 – Pacing Resources& Materials

Vocabulary Definitions:

vertices (vertex) face compare contrast quantity ordinal corner attribute sides length

Web Links

- YouTube, YT Kids
- Storybots
- BrainPOP Jr

Additional Resources:

K.CC.B4

- <http://www.crickweb.co.uk/Early-Years.html>
- <http://illuminations.nctm.org/Activity.aspx?id=3526>
- <http://illuminations.nctm.org/Lesson.aspx?id=3250>
- <http://pocketfullofkinders.blogspot.com/2011/09/math-stations-week-one-and-printables.html>
- <file:///Users/Elizabeth/Downloads/nti-may-2014-grade-k-module-6-ordinal-numbers-handout.pdf>
- <https://www.engageny.org/sites/default/files/resource/attachments/math-gk-m1-full-module.pdf>

K.G.B.4

- <http://www.math-play.com/geometric-figures-game/geometric-figures-game.html>
- http://www.bbc.co.uk/schools/teachers/ks2_activities/maths/shapes.shtml
- <http://catalog.mathlearningcenter.org/files/pdfs/PBLCCSSK2-0412w.pdf>

K.G.B.5

- <http://www.kindergartenworks.com/guided-math/activities-videos-teach-2d-shapes/>
- <http://illuminations.nctm.org/Activity.aspx?id=3587>
- http://www.internet4classrooms.com/common_core/model_shapes_world_building_shapes_from_geometry_kindergarten_math_mathematics.htm

K.G.B.6

- <http://illuminations.nctm.org/Activity.aspx?id=3577>
- https://www.mheonline.com/eminstructionalbridge/pdf/K/lesson_4-7.pdf