

Dear Parents,

We will begin our next unit of study in math soon. The information below will serve as an overview of the unit as you work to support your child at home. If you have any questions, please feel free to contact me. I appreciate your on-going support.

Sincerely,

Your Child's Teacher

## Unit Name: Composing Shapes

### Common Core State Standards:

**K.G.2** Correctly name shapes regardless of their orientations or overall size.

**K.G.5** Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes.

**K.G.6** Compose simple shapes to form larger shapes. For example, "Can you join these two triangles with full sides touching to make a rectangle?"

### Essential Vocabulary:

- |             |            |                      |
|-------------|------------|----------------------|
| • Square    | • Cylinder | • Vertices (corners) |
| • Circle    | • Sphere   | • Same               |
| • Triangle  | • Flat     | • Different          |
| • Rectangle | • Solid    | • Move               |
| • Hexagon   | • Edge     | • Rotate             |
| • Cube      | • Face     | • Flip               |
| • Cone      | • Side     |                      |

### Unit Overview:

Through this unit, students will be exposed to what defining attributes (number of sides, number of vertices) and non-defining attributes (color, size, orientation) of a shape are. Through this unit, teachers will be looking for formal mathematical language to develop (example: This looks like a box. This is a square because it has four equal sides.). This will be done through modeling and multiple experiences with the various shapes and figures. For proficiency in K.G.2, students will be able to understand and apply defining and non-defining attributes to shapes. This will be done through multiple experiences with shapes that are in various orientations, sizes and colors. In K.G.5, students will apply their understanding of shapes and figures to build those shapes with play-doh, marshmallows or toothpicks. For mastery of K.G.6, students will use simple shapes to create other shapes (example: A triangle, rhombus and trapezoid to make a hexagon).

### Strategies/Skills:

As students are being introduced to this new unit, expansion of vocabulary will play a large role in mastery of this standard. Students will need to be able to use position words to describe the location of shapes. They will also need to understand defining and non-defining attributes of shapes. Through multiple experiences and mastery of this new vocabulary, students will then begin to apply their new vocabulary to describe how two shapes or figures are the same and different.

### Video Support:

Video support can be found on The WCPSS Academics YouTube Channel.

- <http://tinyurl.com/WCPSSAcademicsYouTube>
  - [ES K Math Composing Shapes and Positional Words](#)

### Wake County Public Schools, Unit Overview for Parents

*This document should not replace on-going communication between teachers & parents.*

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### **Additional Resources:**

If you have limited/no internet access, please contact your child's teacher for hard copies of the resources listed in this document.

- NCDPI Unpacking Document: [Kindergarten Unpacking Document](#)
- 3-d Shapes <https://www.youtube.com/watch?v=2cg-Uc556-Q&list=RD2cg-Uc556-Q>