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: Measuring Angles

Common Core State Standards:

4.MD.6 Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.

4.MD.7 Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.

end point

ray

angle

circle

fraction

geometric shapes

Essential Vocabulary:

- lines
- angle
- point
- line segment
- ray
- vertex/verticesmeasure
- intersect

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• one-degree angle

- protractor
- decompose
- addition
- subtraction
- unknown
- complementary angles

Unit Overview:

point

In this unit, students will be exposed to measuring angles for the first time. Angle measure is a "turning point" in the study of geometry. Students often find angles and angle measure to be difficult concepts to learn, but that learning allows them to engage in interesting and important mathematics. Students will learn that a circle is made up of 360 one-degree angles. Students will learn to reason using complementary angles. They will utilize this information in order to decompose (break apart) angles into smaller angles. For example a 40 degree angle = 40 one-degree angles = 25 degree angle + 15 degree angle, etc. In addition, students will learn how to use a protractor as a tool within this unit.

Strategies/Skills:

Students will build on their understanding of geometric shapes and go further with identifying and measuring angles. Students will model mastery of this concept through the following ways:

- building
- drawing
- identifying
- analyzing

Wake County Public Schools, Unit Overview for Parents

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

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Video Support:	
Video support can be found on LearnZillion.	
• <u>ht</u>	ps://learnzillion.com/
0	Introduction to protractors
	https://learnzillion.com/lessons/2907-introduction-to-protractors
0	Measure angles to the nearest 10 by reading a protractor
	https://learnzillion.com/lessons/3010-measure-angles-to-the-nearest-10-by-reading-a-
	protractor
0	Measure angles to the nearest degree with protractor
	https://learnzillion.com/lessons/2973-measure-angles-to-the-nearest-degree-with-protractors
0	Sketch angles that are multiples of 10 degrees using a protractor
	https://learnzillion.com/lessons/2913-sketch-angles-that-are-multiples-of-10-degrees-using-a-
	protractor
0	Sketch angles that are not multiples of 10 degrees using protractor
	https://learnzillion.com/lessons/3101-sketch-angles-that-are-not-multiples-of-10-degrees-
	using-a-protractor
0	Compose and decompose angles
	https://learnzillion.com/lessons/3270-compose-and-decompose-angles
0	Understand that angle measure is additive by decomposing
	https://learnzillion.com/lessons/3253-understand-that-angle-measure-is-additive-by-
	decomposing
0	Finding unknown angles using angle properties
	https://learnzillion.com/lessons/3254-find-unknown-angles-using-angle-properties
0	Find unknown angles using diagrams
	https://learnzillion.com/lessons/3402-find-unknown-angles-using-diagrams
0	write an equation to solve for a missing angle measure
	https://learnzillion.com/lessons/3403-write-an-equation-to-solve-for-a-missing-angle-measure
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.

<u>NCDPI Additional Resources</u>

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Questions to Ask When Helping Your Child with Math Homework

Keep in mind that homework in elementary schools is designed as practice. If your child is having problems, please let the classroom teacher know. When helping your child with his/her math homework, you don't have to know all the answers! Instead, we encourage you to ask probing questions so your child can work through the challenges independently.

- What is the problem you're working on?
- What do the directions say?
- What do you already know that can help you solve the problem?
- What have you done so far and where are you stuck?
- Where can we find help in your notes?
- Are there manipulatives, pictures, or models that would help?
- Can you explain what you did in class today?
- Did your teacher work examples that you could use?
- Can you go onto another problem & come back to this one later?
- Can you mark this problem so you can ask the teacher for an explanation tomorrow?