

MATHEMATICS

STRATEGIC COMPETENCE: BALANCING THE HOW, WHY, AND WHEN.

4th Grade Unit 5: Building Conceptual Understanding of Angle Measurement



Overview:

Previously students have learned that a right angle is a square corner, and that an acute angle is smaller than a right angle and an obtuse angle is larger than a right angle. In 4th grade, students will be introduced to the idea of degrees using a 360° protractor. They will begin measuring and exploring angles as an attribute to shapes. Students will build conceptual understanding of angle measurement to make sense of real-life phenomena.

Learning Targets:

In Unit 5, students will:

- Investigate angles within circles.
- Investigate angle measurement using non-standard units of measurement by iterating.
- Understand degrees as a unit of measurement
- Recognize right, acute, and obtuse angles based on their relationship to 90°
- Draw right, acute, and obtuse angles
- Use tools to measure angles
- Understand that a circle measures 360°
- Determine an angles measurement through problem solving using multiplication or division

Key Vocabulary: (linked to GA DOE Interactive Glossary)

Angle	Right Angle	Obtuse Angle	Acute Angle	Wedge
Protractor	Ray	Center	Point	lteration

Degree

Supporting Resources:

http://ctlslearn.cobbk12.org/

https://gavirtual.instructure.com/courses/34725#modules

Angle Basics

Study Jams - Classify Angles

Acute, Right, and Obtuse Angles Partitioning a Circle into Angles - GeoGebra Measuring Angles with a Protractor Interactive Protractor – Math Learning Center

