

Title: What's Your Angle?**Brief Overview:**

In order to understand the construction of angles, students should have prior knowledge of the basic geometric ideas of lines, rays and vertices as well as the four basic types of angles. This unit introduces the students to measuring different types of angles, such as acute, obtuse, right and straight. It will include how to use the protractor as a tool of measurement.

NCTM Content Standard/National Science Education Standard:

1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.
 - Make and test conjectures about geometric properties and relationships and develop logical argument to justify conclusions.
 - Identify, compare, and analyze attributes of two- and three-dimensional shapes and develop vocabulary to describe attributes.
2. Use visualization, spatial reasoning, and geometric modeling to solve problems.
 - Build and draw geometric objects.
 - Recognize geometric ideas and relationships and apply them to other disciplines and to problems that arise in the classroom or in everyday life.
3. Understand measurable attributes of objects and the units, systems, and processes of measurement.
 - Understand such attributes as length and the size of angles and select the appropriate type of unit for measuring each attribute.
4. Apply appropriate techniques, tools, and formulas to determine measurements.
 - Select and apply appropriate standard units and tools to measure length and the size of angles.

Grade/Level:

Grades 4-5

Duration/Length:

3-4 days (of class periods consisting of 60 minutes per day), included in this time period is time for assessment on the last day of the unit.

Student Outcomes:

Students will be able to:

- Identify the components of different types of angles.
- Classify angles according to their measures.