

# Angle Attributes and Measures

## Summary

This lesson investigates attributes of angles and experiences in measuring and estimating measures for angles.

## Main Core Tie

Mathematics Grade 4

[Strand: MEASUREMENT AND DATA \(4.MD\) Standard 4.MD.6](#)

## Additional Core Ties

Mathematics Grade 4

[Strand: MEASUREMENT AND DATA \(4.MD\) Standard 4.MD.5](#)

## Time Frame

1 class periods of 90 minutes each

## Group Size

Large Groups

## Life Skills

Thinking & Reasoning

## Materials

See attached lesson plan for complete list of materials.

scissors

protractors

Angle Sort worksheet

Two-Color Plates manipulative (students can make this easily)

Colored paper for Foldable

Angle Measures worksheet

Measuring Angles Quiz

## Intended Learning Outcomes

Think logically, using inductive reasoning to formulate reasonable conjectures and using deductive reasoning for justification, formally or informally. Cooperatively and independently explore mathematics, using inquiry and technological skills. Make connections between mathematical ideas, between mathematics and other disciplines, and to life.

## Instructional Procedures

See the attached lesson plan for detailed instructional procedures.

Lesson Segment 1:

Guessing Game. Have students guess the geometric idea you are thinking of as you point to various real world examples of angles in the classroom

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Lesson Segment 2:

Students sort and discuss angle cards

Sing angle song  
Form attributes using Two-Color Plates manipulative

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Lesson Segment 3:  
Discuss and use angle measurement investigation worksheet to help students use a protractor  
Create an angle classification foldable to record angle measures  
Estimate angle measures using the Two-Color Plates manipulative

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Practice  
Assign virtual protractor from KidPort  
Quiz

### Strategies for Diverse Learners

Game, music, manipulatives, Foldable Notes, movement

### Assessment Plan

Observe student performance tasks. Listen to question responses. Give attached quiz.

### Authors

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