

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

- 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

- 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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