

Geometry Slide Show

Lesson Overview: Students will review the geometry terms they have been studying and create slide shows that illustrate the terms on their handheld computers. The slide shows give students a study guide that they can take anywhere.

Lesson Tie to Textbook: Everyday Mathematics, 3rd grade edition, Student Reference Book, Geometry Chapter.

Learning Objectives/Outcomes: Students will create drawings that accurately illustrate geometric terms such as *point*, *segment*, *line*, *ray*, *angle*, *parallel*, *intersecting*, *vertex*, and *polygons*. They will identify their drawings by labeling them with the correct terminology.

Ties to National Standards:

National Math Geometry 3-5.1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.

- Identify, compare, and analyze attributes of two- and three-dimensional shapes and develop vocabulary to describe the attributes.

National Math Geometry 6-8.1

Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.

- Precisely describe, classify, and understand relationships among types of two- and three-dimensional objects using their defining properties.

Ties to Michigan State Standards:

Mathematics II. Content Standard 1.1-6: Students develop spatial sense, use shape as an analytic and descriptive tool, identify characteristics and define shapes, identify properties and describe relationships among shapes.

Grade Level: 3-6

Subject Area: Math

Software Used: Sketchy

Materials Needed: Informational text, handheld computers with correct software, examples of geometric terms being studied, and additional reference material (if necessary).

Ties to Overall Unit: This lesson can be used over a long period of time as you are covering new terms in geometry, or it can be done at the end of the unit as a cumulative review.

Helpful URL's:

- <http://www.coolmath4kids.com/geometrystuff.html>
- <http://www.gomilpitas.com/homeschooling/explore/geometry.htm>



Vocabulary: point, segment, line, ray, angle, parallel, perpendicular, intersecting, vertex, polygon, acute angle, right angle, isosceles angle, quadrilateral

Teaching the Lesson

1. **Introducing the Lesson:** Tell students that they are going to create their very own math slide shows to share with their families and to help them study geometry.
2. **Conducting the Lesson:**
 - a. Review with students exactly what geometric terms they are to draw and label on their handheld computers. Your list may include such terms as: line, segment, ray, angle, parallel, perpendicular, polygons, acute angle, right angle, isosceles angle, and quadrilateral.
 - b. Have students use the Sketchy Program to create a slide show entitled "Geometry Show."
 - c. Have students draw one example of a geometry term on each frame and label it correctly using the text icon.
3. **Concluding the Lesson:** Have each student share their slide show with another class of students and at home. They can use it as a study guide.

Reflecting on the Lesson

1. **Issues to Consider:** Remember to have students slow down the speed of the animation playback so that it appears more as a slide show than as animation. Also, you could remove the text labels and then ask students to put them back in on a quiz or test.

Assessment: Assess your students on whether or not they completed the assignment accurately. The slide show could be used as a quiz in which students must name the illustrations orally or by adding the labels.

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