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This lesson provided by:

Author: Amanda Bittinger

System: Shelby County

School: Oak Mountain High School

Title: Geometrica Fights Back!

Overview/Annotation: This activity is designed to give students practice with the properties of special quadrilaterals (parallelograms, rectangles, rhombuses, squares, trapezoids, and kites). The students are provided with a "murder mystery" sheet with descriptions of each "suspect" and a "line-up" of twelve suspects (different quadrilaterals with their properties). The students must decide which suspect(s) from the line-up meets the description. The "guilty" quadrilateral will be discovered at the end of the activity.

Content Standard(s):

MA(9-12) Geometry	3. Verify the relationships among different classes of polygons by using their properties.
MA(9-12) Geometry	5. Solve real-life and mathematical problems using properties and theorems related to circles, quadrilaterals, and other geometric shapes.

Local/National Standards:

Primary Learning Objective(s): The students will identify and classify quadrilaterals by their properties.

Additional Learning Objective(s):

Approximate Duration of the Lesson: 31 to 60 Minutes

Materials and Equipment: Murder Mystery Sheet(see attachment),
 Quadrilateral Property Sheet (see attachment),
 A set of twelve quadrilaterals (see attachment),
 CD player (optional)

Technology Resources Needed:

Background/Preparation: The teacher may choose to teach the properties of quadrilaterals and have students practice applying the properties prior to this lesson. The teacher may choose not to supply the students with the sheet that lists the properties, but instead have the students to complete the activity from their memory of the properties or their class notes.

Procedures/Activities: 1.)Print out the attachments included with this lesson. The teacher may provide a set of twelve quadrilaterals for each student, or he/she may choose to allow the students to complete the activity in groups. To begin the activity, it is fun to play a Horror Sounds CD while a student volunteer reads the story. If this activity is used to summarize a unit on quadrilaterals, the students will be familiar with the properties and have applied them prior to completing this activity. If this lesson is used to introduce the unit before students have become familiar with the properties, the teacher may need to briefly introduce and discuss the properties on the sheet before beginning the activity in order to help students organize their thoughts.

Attachments:**Some files will display in a new window. Others will prompt you to download.

[The Quadrilateral Family.doc](#)
[geometrica.doc](#)
[figures.doc](#)

Assessment Strategies: The activity sheet can be collected and graded. If this activity is being used as a review for a unit on quadrilaterals, a unit test can be used to assess knowledge and understanding of the properties. However, a short quiz on the properties during the class meeting after the activity works well.

Extension: The teacher may choose to have the students write their own stories or develop an activity using geometric shapes and properties.

Remediation:

Accommodation:

Each area below is a direct link to general teaching strategies/classroom accommodations for students with identified learning and/or behavior problems such as: reading or math performance below grade level; test or classroom assignments/quizzes at a failing level; failure to complete assignments independently; difficulty with short-term memory, abstract concepts, staying on task, or following directions; poor peer interaction or temper tantrums, and other learning or behavior problems.

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Be sure to check the student's IEP for specific accommodations.

Modification:

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