

Lesson Title: Are you a square?!? Designer: Diane Hunter
Discipline: Math Grade Level: 4-5

Activity 1: Quadrilateral Scavenger Hunt!

(Appropriate for AFTER the Broadcast Lesson)

Activity Goal: Find real-world applications and uses of quadrilaterals; decide what the quadrilateral would be classified as.

Targeted Math Skills: Identify the classification of different quadrilaterals.

Materials: Blank paper; writing utensil; clipboard (optional).

Steps:

1. Walk around; try to find different quadrilaterals where you live!
2. Write down on the blank paper what the quadrilateral was and where you found it.
3. Classify the quadrilaterals.

Questions to Consider:

1. Where did you find most of the quadrilaterals?
2. Did the quadrilaterals have a similar use?
3. Was there one type of quadrilateral that appeared most frequently? If so, why do you think that is?

Activity 2: Could it be?

(Appropriate for AFTER the Broadcast Lesson)

Activity Goal: Identify the different names that a quadrilateral could have.

Targeted Math Skills: Understand that different quadrilaterals can fit into multiple categories.

Materials: Quadrilateral shapes handout (attached); Quadrilateral checklist (attached).

Steps:

1. Review the requirements for all of the different quadrilaterals (see checklist).
2. Sort quadrilaterals into each group (use the attached quadrilateral shapes handout).
3. Analyze the groups to see if any fit within another category.

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Questions to Consider:

1. What traits could be included within another (i.e. 2 sets of parallel lines would also be 1 set of parallel lines)?
2. What type of quadrilateral do you think is the most specific in what its qualities are? Why?

Further Extension: Create a hierarchy tree of the different quadrilaterals (i.e. draw this visually or with a concept map).

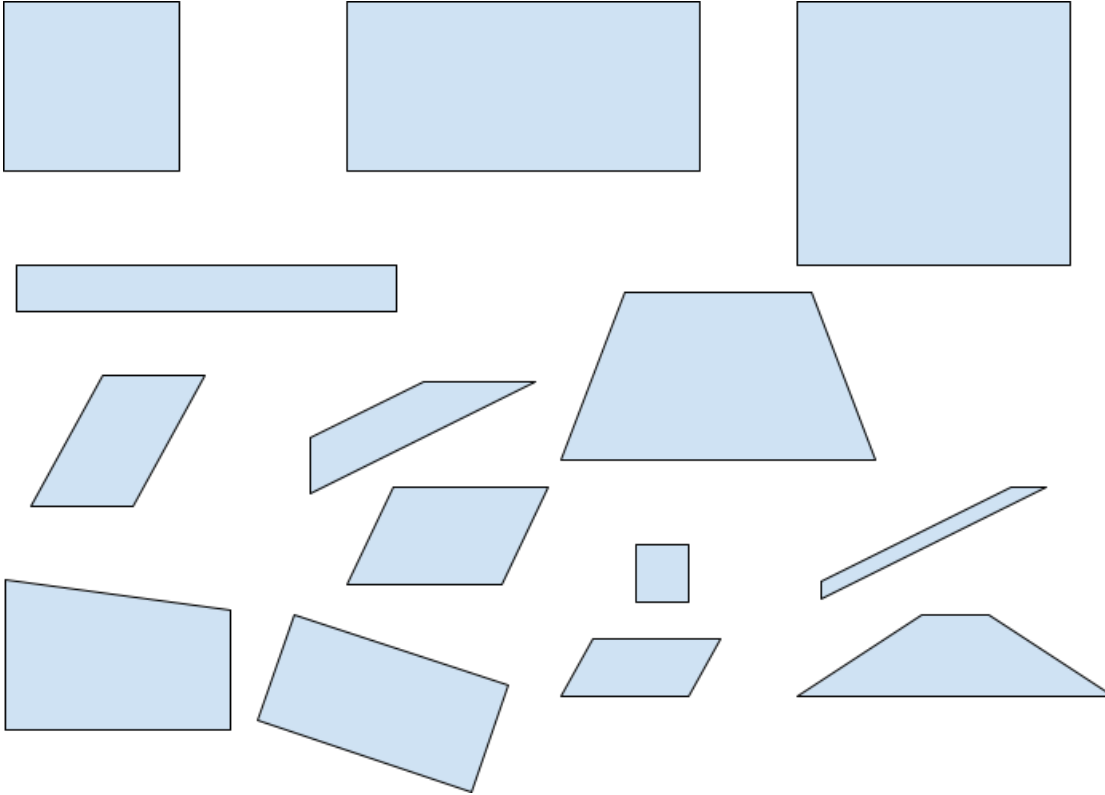
Additional Resources for Lesson-Related Extension Activities:

- **Helpful Tips:** Remind students about the minimum qualities that a figure must have to be considered that shape.
- **Student-Facing &/or Teacher-Facing:**
 - Create your own quadrilaterals (Math is Fun)- <https://www.mathsisfun.com/geometry/quadrilaterals-interactive.html>
 - Review Mathematical Concepts: Quadrilaterals (XX) - <https://www.youtube.com/watch?v=CkbClyVxRIU>
 - Review Mathematical Concepts: Quadrilaterals (Math antics) - <https://www.youtube.com/watch?v=yiREqzDsMP8>
- **Teacher-Facing:**
 - Additional/supplemental lesson plans: Quadrilaterals (Math is Fun/Learnzillion) - <http://www.math.com/school/subject3/lessons/S3U2L3GL.html>
 - https://learnzillion.com/lesson_plans/5783-sort-quadrilaterals-by-their-attributes/

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Activity 2 Materials

- Quadrilateral shapes:



- Quadrilateral checklist:

<p>Quadrilateral -4 sides -closed figure</p>	<p>Trapezoid -4 sides -1 set of parallel lines</p>
<p>Parallelogram -4 sides -opposite sides are parallel</p>	<p>Rectangle -4 sides -opposite sides are parallel -opposite sides are equal -4 right angles</p>
<p>Square -4 sides -opposite sides are parallel -4 sides are equal -4 right angles</p>	<p>Rhombus -4 sides -opposite angles are equal -4 sides are equal</p>