

# SUPPLEMENTAL LESSONS

**Mathematics Grade 9  
3rd Quarter**



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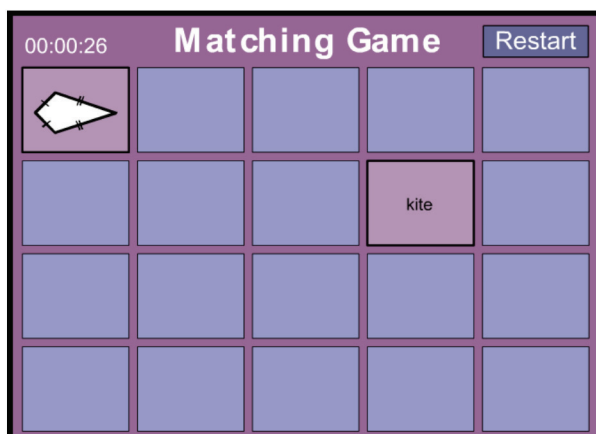


# 3rd Quarter Grade 9 Supplemental Lesson Plan

## Solving Problems Involving Parallelograms, Trapezoids, and Kites

### Introduction

Review quadrilaterals, parallelograms, and other quadrilaterals using an online interactive game. (Sample site: [http://www.mathplayground.com/matching\\_shapes.html](http://www.mathplayground.com/matching_shapes.html))



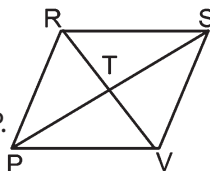
### Body

1. Post a problem involving solving for the measure of the angles and sides of a parallelogram on the board.

Example:

Use rhombus  $RSVP$  and the given information to find each value.

- a. If  $m\angle RPV = 72$ , find  $\angle m RPS$
- b. If  $m\angle PRS = 110$ , find  $\angle m RSP$ .
- c. If  $SP = 34$ , find  $PT$ .
- d. If  $RS = 17$ , find  $SV$ .



2. Demonstrate to the class how to solve for the measures of angles and sides of parallelograms, trapezoids, and kites.

### Knowledge

Solving problems involving parallelograms, trapezoids, and kites

### M9GE-IIIe-1

Solve problems involving parallelograms, trapezoids, and kites

### KU

Real-life objects can be modeled geometrically.

### KQ

How does geometry model the real world?

3. Discuss more examples for pattern recognition.
4. For practice, conduct a spin-off *Think-Pair-Share* activity (Lyman, 1981), and ask the students to answer problems involving parallelograms, trapezoids, and kites.
  - a. The students will work on the problems individually.
  - b. They will form pairs to discuss their thoughts and compare their answers.
  - c. The pairs will share their answers to the whole class.
5. Let the students answer more exercises individually.

### Conclusion

Let the students answer the *Exit Sheet* (Lujan, 2011) on a separate sheet of paper. Call on volunteers to share his/her answers.

<b>I Understand</b>	<b>I Need Help</b>
I learned...	I need help with...
The lesson helped me...	I have a question: _____
<b>I Need Practice</b>	<b>I Want More</b>
I am still confused about...	I could use this information...
I need to practice...	I wish I could...

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