### Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Quadrilaterals – Rhombuses, Squares, Trapezoids & Kites**

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| **Definition: A rhombus is a parallelogram with four congruent sides.****A****B****C****D** |
| If a parallelogram is a rhombus,then it has **4 congruent sides.** |  |  |
| If a parallelogram is a rhombus,then its **diagonals are perpendicular**. | **A****B****C****D** |  |
| If a parallelogram is a rhombus,then its **diagonals bisect opposite angles**. | **A****B****C****D** |  |
| **opposite sides are parallel** | **opposite sides are congruent** | **opposite angles are congruent** | **consecutive angles are supplementary** | **diagonals bisect each other** |

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| **Definition: A square is a parallelogram with 4** $≅$ **sides & 4 right angles.** |
| opposite sides are parallel | opposite sides are congruent | opposite angles are congruent | consecutive angles are supplementary | diagonals bisect each other |
| 4 right angles | diagonals are congruent |
| 4 congruent sides | diagonals are perpendicular | diagonals bisect opposite angles |
| **B****A****D****C** |  |

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| **Definition: A trapezoid is a quadrilateral** **with 1 pair of opposite sides parallel.** |
| If a quadrilateral is a trapezoid, then it has **one pair of opposite sides parallel.** | **A****B****C****D** |  |
| If a trapezoid is isosceles, then its **diagonals are congruent**. | **A****B****C****D** |  |
| If a trapezoid is isosceles, then its **base angles are congruent**. | **A****B****C****D** |  |
| If a trapezoid is isosceles, then its **non-base angles are supplementary**. | **A****B****C****D** |  |

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| **Definition: A kite is a quadrilateral with** **2 pairs of consecutive sides congruent.****A****B****C****D** |
| If a quadrilateral is a kite, then it has **2 pairs of consecutive sides congruent.****A****B****C****D** |  |  |
| If a quadrilateral is a kite, then it has **1 pair of opposite angles congruent.****A****B****C****D** |  |  |
| If a quadrilateral is a kite, then it its **diagonals are perpendicular.** |  |  |
| If a quadrilateral is a kite, then it **one diagonal is bisected by the other.**  | **A****B****C****D** |  |