All properties listed apply to all shapes below that quadrilateral in the hierarchy.

**Hierarchy of Quadrilaterals**

**Trapezoid**

Exactly one pair of parallel sides

**Isosceles** **Trapezoid**

Legs are congruent

Common base angles are congruent

Diagonals are congruent

Adjacent base angles, (not along same base), are supplementary

**Rhombus**

At least 2 consecutive sides are congruent (all sides are congruent)

 Diagonals bisect opposite angles

 Diagonals are perpendicular bisectors

Diagonals form 4 right triangles

**Parallelogram**

Both pairs of opposite sides of parallel lines

Both pairs of opposite sides are congruent

Opposite angles are congruent

Consecutive angle pairs are supplementary

Diagonals bisect each other

**Quadrilateral**

4 sided polygon (2-D)

Sum of internal angles = 3600

**Kite**

2 pairs of adjacent congruent sides

1 set of opposite angles are congruent

Diagonals perpendicularly bisect each other

Diagonals bisect opposite angles

**Square**

Diagonals form 4 congruent isosceles right triangles

**Rectangle**

All angles are right angles

Diagonals are congruent