## Quadrilateral Hierarchy

## Kite

$\checkmark$ A quadrilateral that has two pairs of consecutive congruent sides, BUT opposite sides are not congruent
$\checkmark$ Diagonals are not congruent
$\checkmark$ ONLY ONE pair of opposite angles are congruent
$\checkmark$ The OTHER pair of opposite angles are bisected by one of the diagonals
(This is the line of symmetry)
*Diaqonals are not congruent


## Quadrilateral

$\checkmark$ Four sided polygon

## Parallelogram

$\checkmark$ A quadrilateral with both pairs of opposite sides parallel
$\checkmark$ Opposite sides and angles are congruent
$\checkmark$ Consecutive angles are supplementary

## Trapezoid

$\checkmark$ A quadrilateral with EXACTLY one pair of opposite sides parallel
$\checkmark$ Leg angles are supplementary
*Diagonals are not congruent
$\checkmark$ The diagonals bisect each other

## Isosceles Trapezoid

$\checkmark$ A trapezoid whose legs are congruent
$\checkmark$ Both pairs of base angles (separately) are congruent
$\checkmark$ Diagonals are congruent

## Rhombus

$\checkmark$ A parallelogram with 4 congruent sides
$\checkmark$ Diagonals are perpendicular AND bisect a pair of opposite angles

* Diagonals are not congruent


## Rectangle

$\checkmark$ A parallelogram with 4 congruent angles (all 90 degrees)
$\checkmark$ Diagonals are congruent
$\checkmark$ Diagonals form 4 isosceles triangles

## Square

$\checkmark$ A parallelogram with 4 congruent angles and sides
$\checkmark$ Diagonals are congruent
$\checkmark$ Holds all properties for a rhombus and a rectangle

