

Quadrilaterals Graphic Organizer

5.3 Kite and Trapezoid Properties, 5.5 Properties of Parallelograms, 5.6 Properties of Special Quads

Quadrilateral Name	Side Properties	Angle Properties	Diagonals Properties
Kite A quadrilateral with two distinct pairs of congruent consecutive sides.	In a kite there are two pair of congruent sides	- Non-vertex angles are congruent - Vertex angles are bisected by a diagonal	- Diagonals are $\perp$ - Diagonal connecting vertex angles is the $\perp$ bisector of the other diagonal
Trapezoid A quadrilateral with exactly one pair of parallel sides.	The two parallel sides of the trapezoid are called the bases	The consecutive angles between the bases of the trapezoid are supplementary	
Isosceles Trapezoid A trapezoid with two congruent legs.	In an isosceles trapezoid the non-parallel sides are congruent	The base angles of an isosceles trapezoid are congruent	The diagonal of an isosceles trapezoid are congruent
Parallelogram A quadrilateral with two pairs of parallel sides.	Opposite sides are congruent	- Opposite angles are congruent - Consecutive angles are supplementary	The diagonals bisect each other
Rhombus An equilateral parallelogram.	All of the same properties of a parallelogram Opposite sides are congruent	All of the same properties of a parallelogram - Opposite angles are congruent - Consecutive angles are supplementary	All of the same properties of a parallelogram and... - The diagonals of a rhombus are $\perp$ bisectors of one another - The diagonals of a rhombus are angle bisectors
Rectangles An equiangular parallelogram.	All of the same properties of a parallelogram Opposite sides are congruent	All of the same properties of a parallelogram - Opposite angles are congruent - Consecutive angles are supplementary	All the same properties of a parallelogram and... - The diagonals of a rectangle are congruent - The diagonals of a rectangle bisect one another
Squares An equiangular and equilateral parallelogram. A regular quadrilateral.	All of the same properties of a parallelogram Opposite sides are congruent	All of the same properties of a parallelogram - Opposite angles are congruent - Consecutive angles are supplementary	All of the same properties of a parallelogram and... The diagonals of a square are congruent, $\perp$, bisect one another