H.Geometry - Chapter 5- Definition Sheet

	Section 5.5 - Investigation
	-Shows relationships among the various types of quadrilaterals
Quadrilateral Hierarchy	- membership works up the hierarchy
	- properties work down the hierarchy \square
	Example: A rectangle is also: - parallelogram - isosceles trapezoid/trapezoid
	Properties of trapezoids also apply to: - isosceles trapezoid - parallelugram - square - rectangle
Properties of Parallelograms:	A CONTROL DE CONTROL D
Parallelogram <u>CONSECUTIVE</u> Angles Theorem	The consecutive angle of a parallelogram are <u>SUPPLEMENTARY</u> Made possible by: <u>trapezold consecutive</u> 2 Thm. 2 Aand 4B are supp. / 4B and 4C are supp.
Parallelogram OPPOSHE SIGE Theorem	Both Pairs of opposite sides of a parallelogram are <u>congruent</u> $\overline{AB} \cong \overline{CD} ; \overline{AD} \cong \overline{BC}$
Parallelogram OPPOSITE Angle Theorem	Both Pairs of opposite angles of a parallelogram are $\underline{\text{congnent}}$ $\angle A \cong \angle C \; ; \; \angle D \cong \angle B$
Parallelogram DiagonalS Theorem	The diagonals of a parallelogram bisect each other. AC bisects BD; BD bisects AC

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A quantity with both direction and magnitude Vector Represented by arrows o Direction: indicated by arrow o Magnitude: Indicated by H Used in physics to represent forces, velocity, or acceleration **Resultant Vector** A single vector representing the effect of two forces put together Finding vector sum o Draw a parallelogram using the vectors as sides o Resultant vector is the <u>diagonal</u> of this parallelogr drawn from the vectors' tails. Example: 2 forces acting on an object $V_p = Force due to pulling$ $V_q = Force due to gravity$ V_g $V_r = Resultant \, Vector$