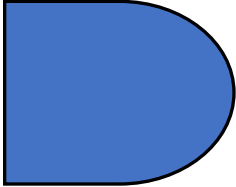

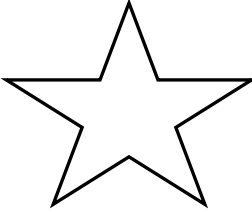
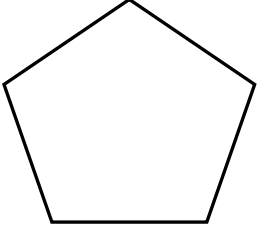
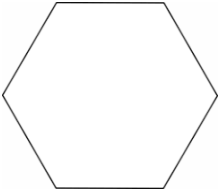
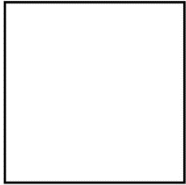
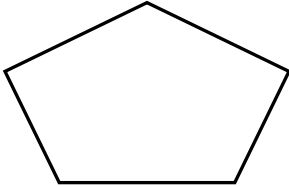
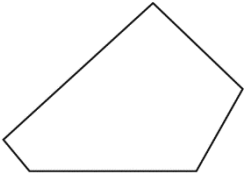


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2D Geometry Vocabulary (Key)


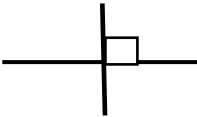

Non-Polygon	Attributes - <u>curved sides</u> - <u>open figure</u> - <u>crisscrossing lines</u>	Polygon	Attributes - <u>straight sides</u> - <u>closed figure</u> - <u>at least 3 sides, 3 angles</u> - <u>no crossing lines</u>
Example		Example	
			

Regular Polygon	Attributes - <u>all sides are congruent</u>	Irregular Polygon	Attributes - <u>all sides are NOT congruent</u>
Example		Example	
			

Attributes: characteristics or properties of a figure

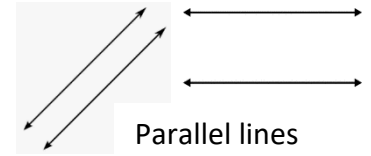
Congruence/congruent: two or more items are the same size/measure.

Perpendicular: intersecting lines that form a right (90° degree) angle

Perpendicular Examples		
		

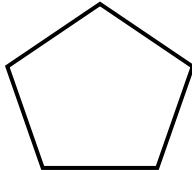
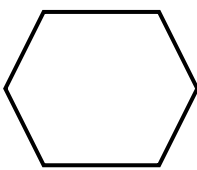
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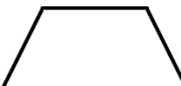
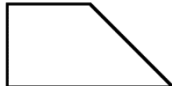
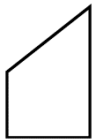


Parallel Lines: lines that are equal distance apart which never intersect.



Plane figure: flat two-dimensional figures

Two-dimensional: a flat shape with a length and a width

Additional Polygons	
Pentagon	Hexagon
	
5-sided polygon	6-sided polygon

Trapezoids				
				
A quadrilateral with at LEAST one set of parallel lines				

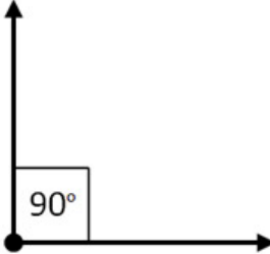
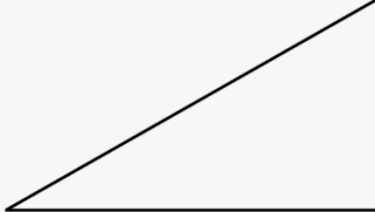

Additional Polygons:

Heptagon: 7-sided polygon

Octagon: 8-sided polygon

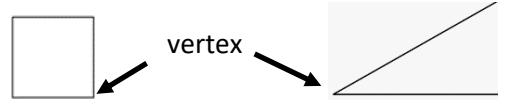
Nonagon: 9-sided polygon

Decagon: 10-sided polygon

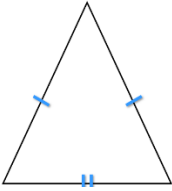
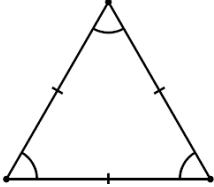
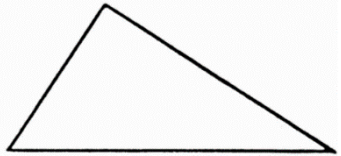
Angles: <u>two rays with a common endpoint (vertex)</u>		
Right angle	Acute Angle	Obtuse Angle
		
Exactly 90°	Less than 90°	More than 90° but less than 180°

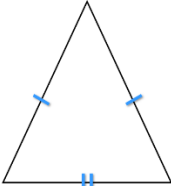
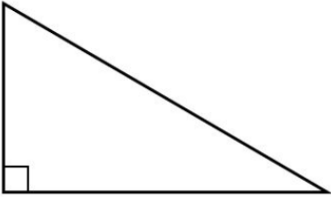
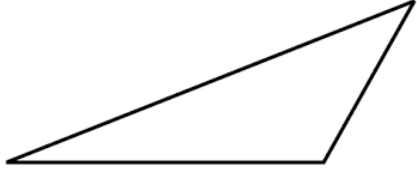
Name: _____ Date: _____

Vertex: a point where two sides (rays) meet



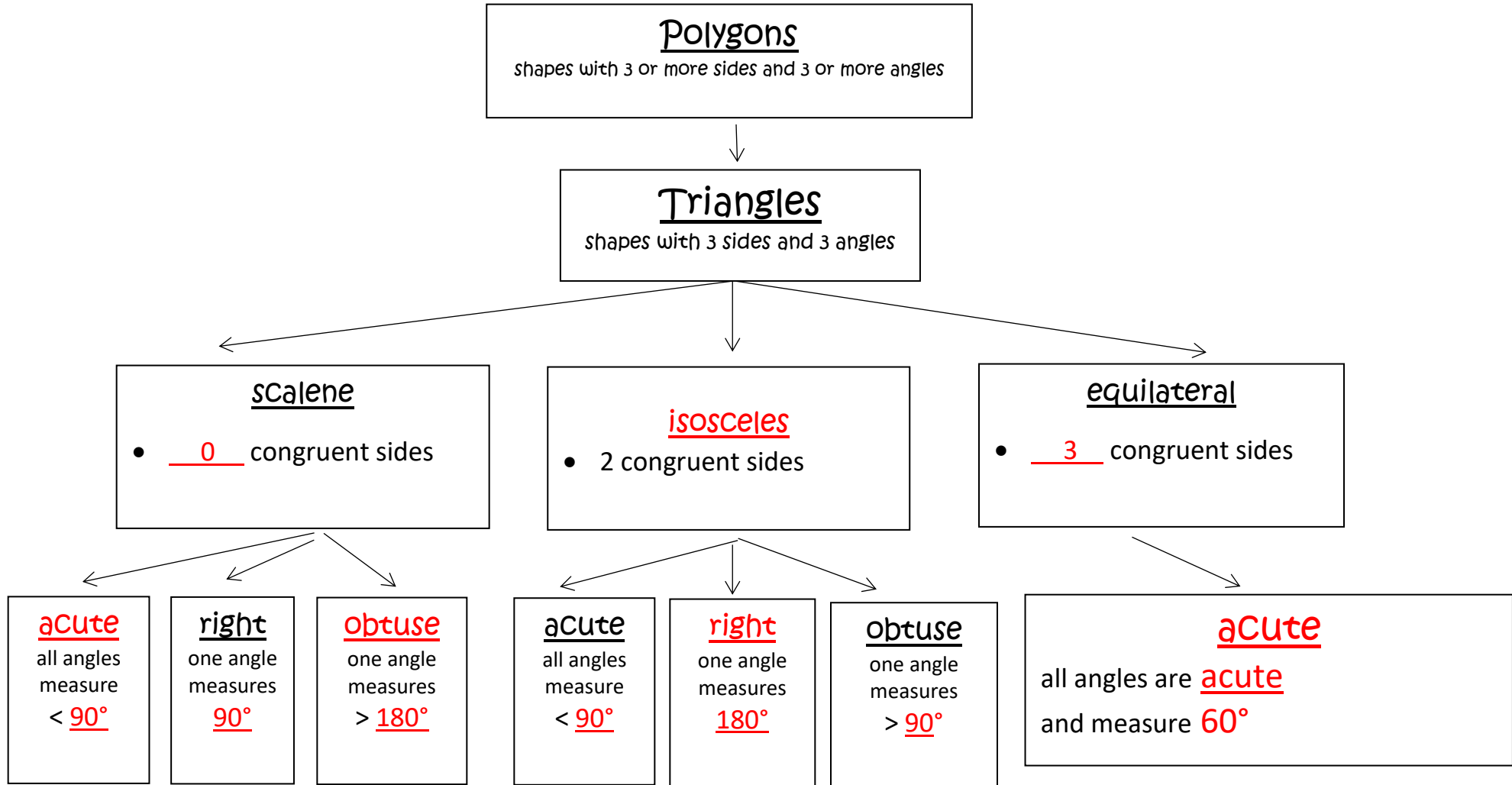
We can classify triangles 2 different ways, using angles or by sides

Triangle: 3-sided polygon		
Classifying triangles by sides		
		
Isosceles Triangle	Equilateral Triangle	Scalene Triangle
2 congruent sides	All 3 sides are congruent	No congruent sides

Triangle: 3-sided polygon		
Classifying triangles by angles		
		
Acute Triangle	Right Triangle	Obtuse Triangle
3 acute angles	One right (90°) angle	One obtuse angle

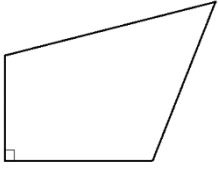
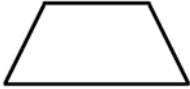

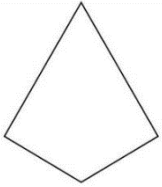

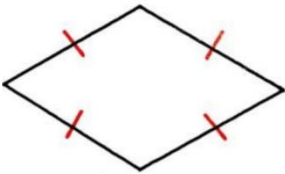

Name: _____ Date: _____

Hierarchy of Shapes triangles with reference to angles



Name: _____ Date: _____

Quadrilaterals

	Example	Attributes
Quadrilateral		<ul style="list-style-type: none">• <u>shapes with 4 sides and 4 angles</u>
Trapezoid		<ul style="list-style-type: none">• <u>quadrilateral with at least 1 set of parallel sides</u>
Parallelogram		<ul style="list-style-type: none">• <u>two sets of parallel sides</u>• <u>two sets of congruent sides</u>• <u>two sets of congruent angles</u>
Kite		<ul style="list-style-type: none">• <u>two sets of congruent sides</u>• <u>at least one set of congruent angles</u>
Rectangle		<ul style="list-style-type: none">• <u>four right angles</u>• <u>two sets of congruent sides</u>• <u>two sets of parallel sides</u>
Rhombus		<ul style="list-style-type: none">• <u>4 congruent sides</u>• <u>2 sets of parallel sides</u>• <u>2 sets of congruent angles</u>
Square		<ul style="list-style-type: none">• <u>four right angles</u>• <u>four congruent sides</u>• <u>two sets of parallel sides</u>

Hierarchy of Shapes
Quadrilaterals w/reference to sides and angles

