

**Content and Language Objective:**

**Students will define and classify triangles and quadrilaterals and discuss assumptions that are made not only in math but everyday life after:**

- a.) doing an investigation discussing characteristics of triangles and quadrilaterals**
- b.) creating a poster to identify the characteristics of triangles and quadrilaterals**

**We have been focusing a lot on definitions and we have found that we have to be careful with them.**

**When we are dealing with diagrams, we also have to be very careful**

**When we look at diagrams, we need to be careful not to ASSUME too much from it.**

**REMEMBER TO ASSUME SOMETHING IS TO ACCEPT IT AS TRUE WITHOUT FACTS OR PROOFS**

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**REMEMBER TO ASSUME SOMETHING IS TO ACCEPT IT AS TRUE WITHOUT FACTS OR PROOFS**

THINGS YOU CAN ASSUME	THINGS YOU CAN'T ASSUME
<ul style="list-style-type: none"><li>• You may assume that lines are straight and if two lines intersect at, they intersect at one point</li><li>• You may assume that points on a line are collinear and that all points shown in a diagram are coplanar unless planes are drawn to show that they are noncoplanar</li></ul>	<ul style="list-style-type: none"><li>• You may not assume that just because two lines or segments <i>look</i> parallel that they <i>are</i> parallel -- they must be <i>marked</i> parallel!</li><li>• You may not assume that two lines <i>are</i> perpendicular just because they <i>look</i> perpendicular -- they must be <i>marked</i> perpendicular!</li><li>• Pairs of angles, segments, or polygons are not necessarily congruent, unless they are <i>marked</i> with information that tells you they must be congruent!</li></ul>

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- 1. Students will write a definition for each triangle and quadrilateral using its characteristics**
- 2. Students will share out their definitions with the whole class**

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Right Triangle	A right triangle has one right angle
Acute Triangle	An acute triangle has three acute angles
Obtuse Triangle	An obtuse triangle has one obtuse angle

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Scalene Triangle	A scalene triangle is a triangle with no congruent sides
Equilateral Triangle	An equilateral triangle has three congruent sides
Isosceles Triangle	An isosceles triangle has at least two congruent sides

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<b>Trapezoid</b>	<b>A trapezoid is a quadrilateral with exactly one pair of parallel sides</b>
<b>Kite</b>	<b>A kite is a quadrilateral with two distinct pairs of consecutive congruent sides</b>
<b>Parallelogram</b>	<b>A parallelogram is a quadrilateral with two pairs of parallel sides</b>

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<b>Rhombus</b>	<b>A rhombus is an equilateral parallelogram</b>
<b>Rectangle</b>	<b>A rectangle is a parallelogram with four congruent angles</b>
<b>Square</b>	<b>A square is an equilateral rectangle. A square is an equiangular rhombus. A square is a regular quadrilateral</b>