

Triangles and Toothpicks how it works

With this hands on activity, students build triangles using toothpicks and then, depending on the skill you are focusing on (sides, or angles) classify each triangle they build.

For example:

Triangle	Toothpicks per side	Sketch of triangle	Acute, right, or obtuse?
1	3, 4, 5		right

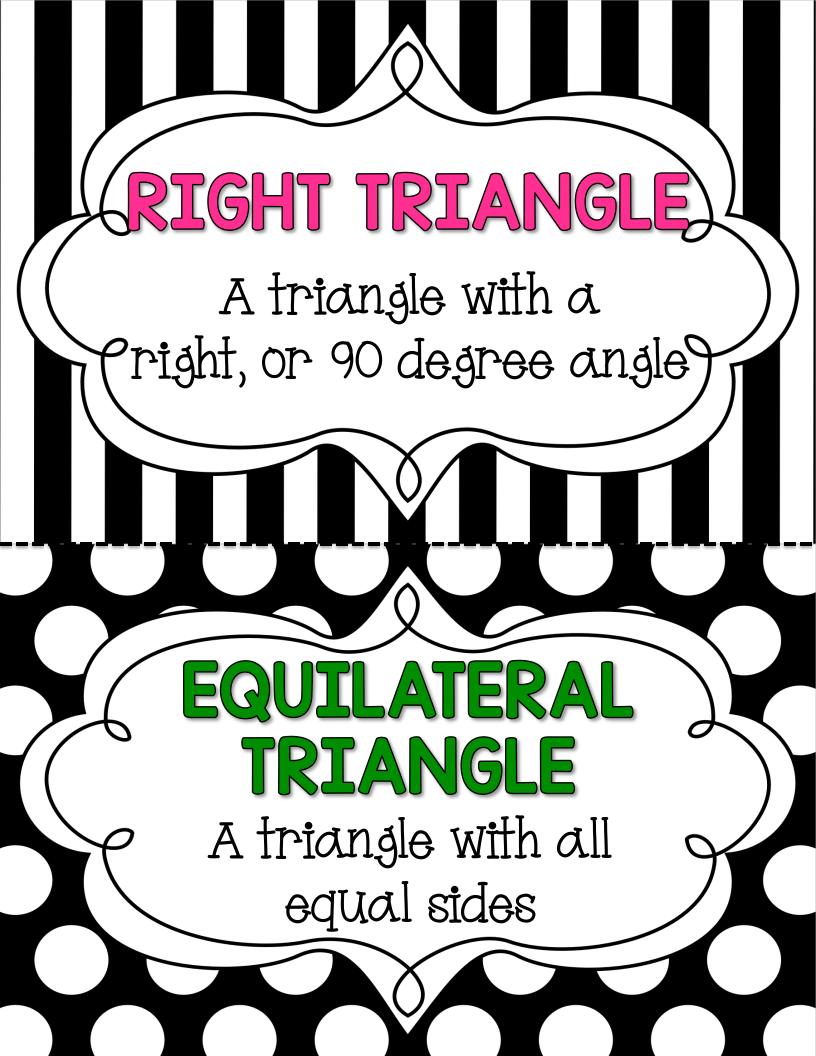
Using 12 toothpicks, students build a triangle to match the specifications-3 toothpicks on 1 side, 4 on another side, and 5 on the third side. From here they then classify the types of triangle by either the sides or angles.

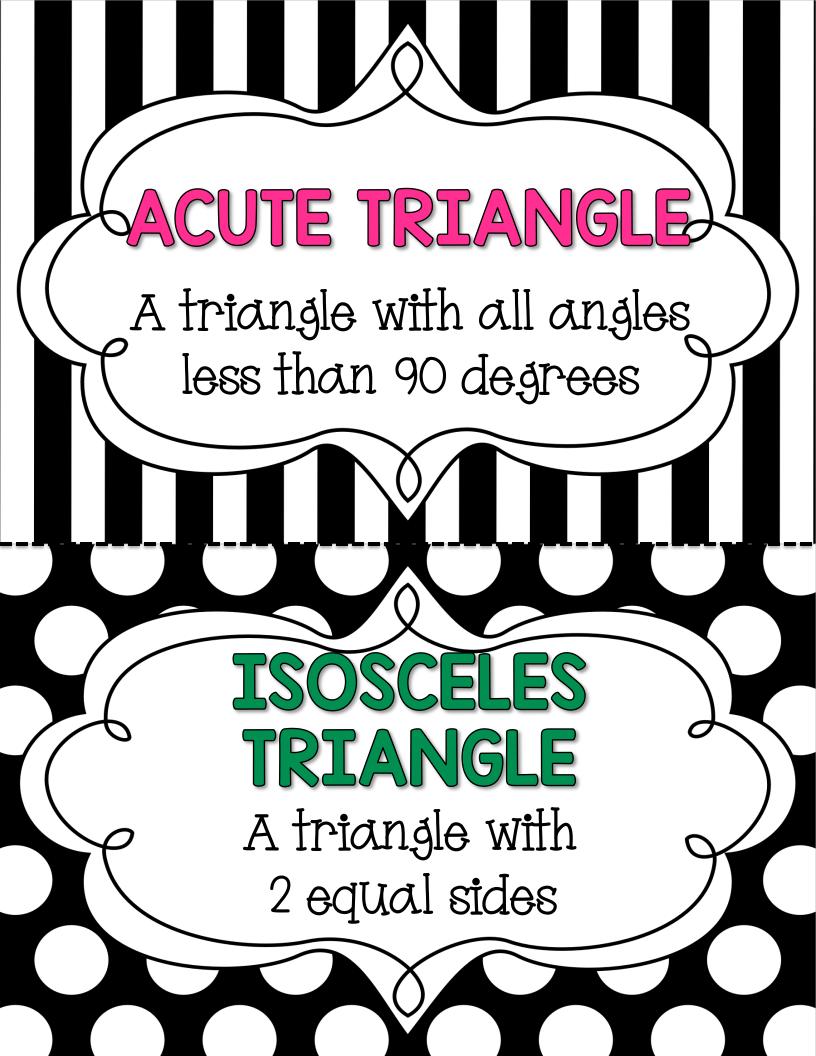
Helpful Hints:

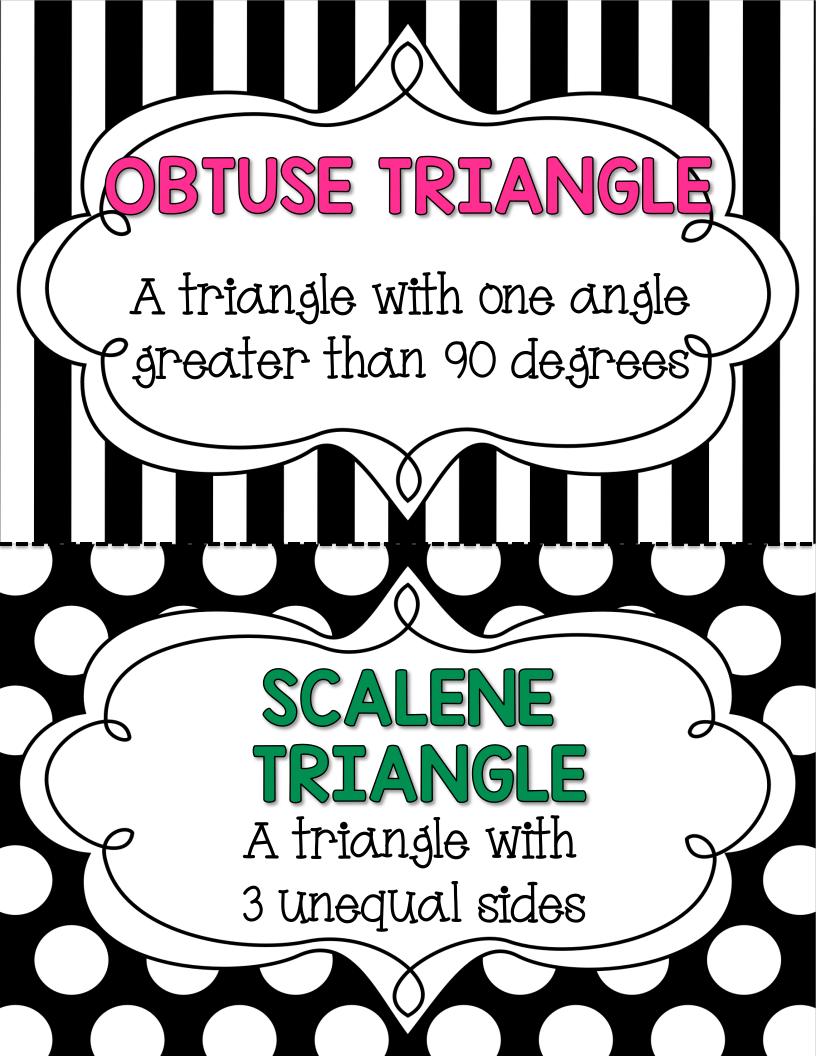
The recording sheets for both sides and angles are the same specifications. If you plan on having your students classify both ways, run the copy front to back so they only have to build the triangle once and can then do all the classifying.

To do this activity independently, each student in your class will need 15 toothpicks. The toothpicks can be a little tricky to wrangle, especially for younger students. A solution for this is to use marshmallows, foam balls, bits of clay, or playdough, etc. to help keep the toothpicks secure. In lieu of toothpicks you could also use straws, coffee stir sticks, uncooked spaghetti, etc. to create straight lines with.

Made by feslie Varghese







Triangles and Toothpicks

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Triangle	Toothpicks per side	Sketch of triangle	Acute, right, or obtuse?
1	3, 4, 5		
2	3, 3, 3		
3	2, 1, 2		
4	2, 3, 4		
5	2, 2, 2		
6	2, 3, 2		
7	1, 1, 1		
8	4, 5, 6		

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Angles Answer Key

Triangle	Toothpicks per side	Sketch of triangle	Acute, right, or obtuse?
1	3, 4, 5		right
2	3, 3, 3		acute
3	2, 1, 2		acute
4	2, 3, 4		obtuse
5	2, 2, 2		acute
6	2, 3, 2		obtuse
7	1, 1, 1		acute
8	4, 5, 6		acute

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Triangles and Toothpicks

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Triangle	Toothpicks	Sketch of	Isosceles, Scalene, or
	per side	triangle	Equilateral?
1	3, 4, 5		
2	3, 3, 3		
3	2, 1, 2		
4	2, 3, 4		
5	2, 2, 2		
6	2, 3, 2		
7	1, 1, 1		
8	4, 5, 6		

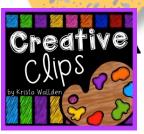
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Sides Answer Key

Triangle	Toothpicks	Sketch of	Isosceles, Scalene, or
	per side	triangle	Equilateral?
1	3, 4, 5		scalene
2	3, 3, 3		equilateral
3	2, 1, 2		isosceles
4	2, 3, 4		scalene
5	2, 2, 2		equilateral
6	2, 3, 2		isosceles
7	1, 1, 1		equilateral
8	4, 5, 6		scalene

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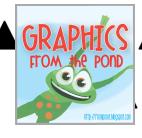














I hope you & your students enjoy! -Leslie

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