

# GEOMETRY



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# BIG IDEAS IN GEOMETRY

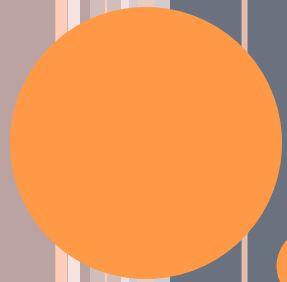
## ○ Shapes

- Attributes or Properties
- Composing/Decomposing
- Congruency and Similarity
  - Growing and Shrinking
  - Transformations

## ○ Space (Describing the world around us)

- Maneuver
  - Transformations (and symmetry)
  - Locations
- Measuring
- Defining or Describing Space (including visualization)
  - Boundaries
  - 2-d, 3-d





# TRIANGLES

# TRIANGLE RECIPE

- Write down the steps (or recipe) for drawing a triangle.
  - Do your steps create a specific type of triangle or all types of triangles?



# TRIANGLE ACTIVITY

- Write down the steps (or recipe) for drawing a triangle.
  - Do your steps create a specific type of triangle or all types of triangles?
- Volunteers
  - Face the back of the room (not the board) and read the directions
  - The instructor will “attempt” to construct a triangle based on those directions.



# TRIANGLE NAMES

- What are all the different types of triangles?
- What are their iconic representations?
- What are their attributes?



# TRIANGLE CONJECTURES

- Write 2 conjectures regarding triangles
  - You can do this in pairs
- Determine whether the conjecture is true or false.
  - Transfer your conjecture to an index card
  - Put your initials on the bottom of your card
  - Pass your conjectures to another person/group at a different table
  - Read the conjecture and prove whether it is true or not



# BIG IDEAS IN GEOMETRY

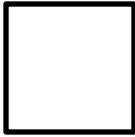
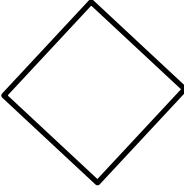
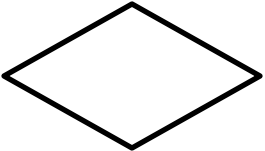

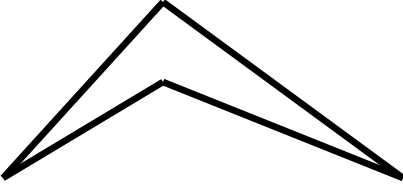
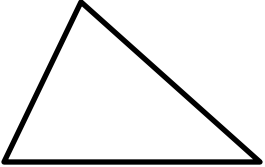

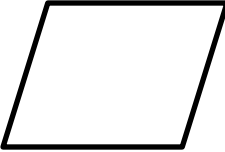
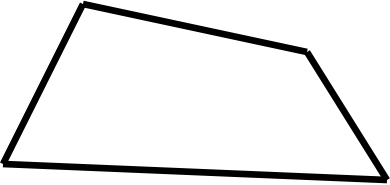


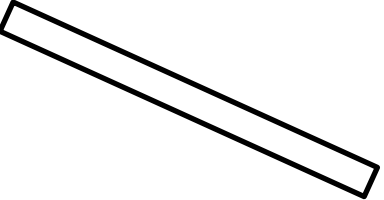
## ○ Shapes


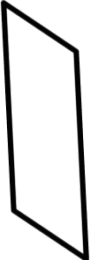

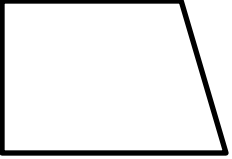
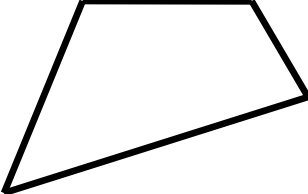
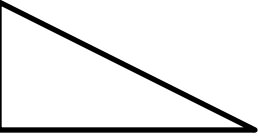
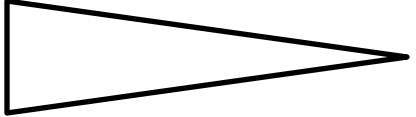
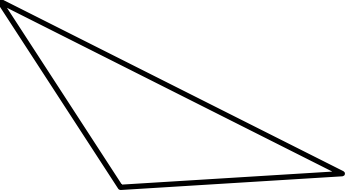
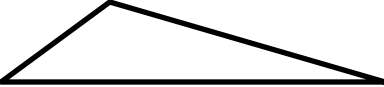

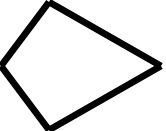
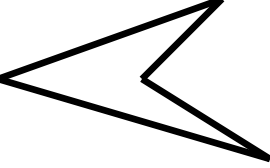
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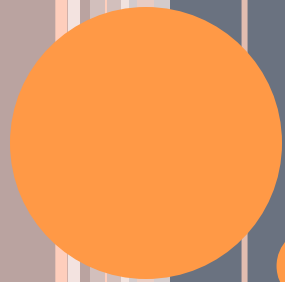
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	A	B	C
1			
2			
3			
4			

	A	B	C
5			
6			
7			
8			



# QUADRILATERAL

# QUADRILATERAL TAXONOMY

- Goal: Create a taxonomy of all the quadrilaterals
  - Name each of the quadrilaterals
  - What are their attributes? Define each quadrilateral.
  - Write down as many conjectures as possible?
    - Have one person in the group write these down



# QUADRILATERAL TAXONOMY (EXAMPLE)

