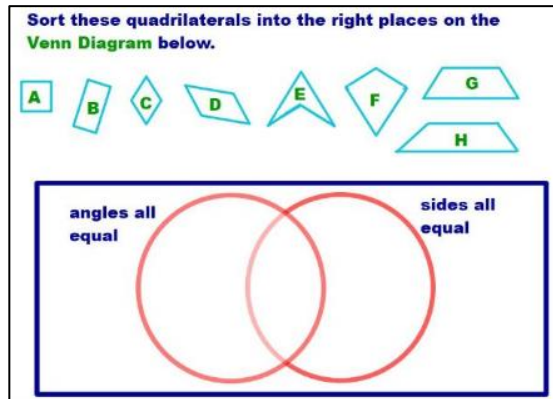


Classifying and Organizing Two-Dimensional Figures

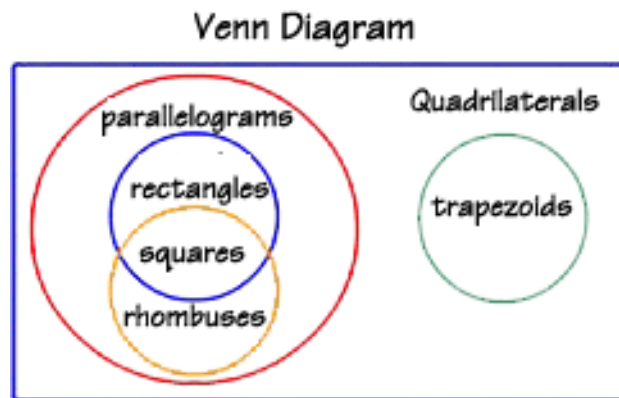
<p align="center">Overarching Student Learning Goals</p> <p>In this unit, your child will work to build an understanding of the following:</p>	<p align="center">Resources/Tasks to support your child at home.</p>
<p>Name shapes that belong in different categories, based on the attributes of the shapes.</p> <p>Students name shapes based on attributes, which includes: length of sides, number of sides, types of angles, parallel sides.</p> <div data-bbox="197 472 1026 667" style="text-align: center;"> </div> <p><i>The above shapes are all rectangles because they have 4 right angles.</i></p>	<ul style="list-style-type: none"> • Present different triangles and quadrilaterals to your child and have them describe and name the shapes based on their attributes. • Florida Student Tutorial: Figuring Out 2-D Shapes https://goo.gl/R8cbGK • LearnZillion: Recognizing Shape Attributes https://goo.gl/BNmrYg
<p>Sort and classify quadrilaterals based on shared attributes.</p> <ul style="list-style-type: none"> • Using the attributes of length of sides, angles, parallel sides - name, classify and sort quadrilaterals. <div data-bbox="197 906 1026 1446" style="text-align: center;"> <pre> graph TD Q[Quadrilaterals *4 sides, 4 angles] --> T[Trapezoid] Q --> K[Kite] Q --> P[Parallelogram *Two pairs of opposite parallel sides] T --> TI[isosceles] T --> TR[right] P --> R[Rhombus *Four equal sides] P --> RE[Rectangle *Four right angles] R --> S[Square *Four equal sides & four right angles.] RE --> S </pre> </div>	<ul style="list-style-type: none"> • Encourage your child to name quadrilaterals all the possible names based on their given attributes using the diagram to the left. (Example: A square can be named quadrilateral, parallelogram, rhombus, rectangle and square). Then have them determine the most defining name (including all attributes) which would be square. • LearnZillion: Sort Quadrilaterals by their Attributes https://goo.gl/TvXmeE • Khan Academy: Quadrilateral Properties https://goo.gl/4GBFp7

Work with Venn Diagrams to compare attributes of shapes.

- Students use attributes to compare and contrast shapes using the tool of a Venn Diagram.



- Using a Venn Diagram helps students determine multiple names for given shapes and how the shapes compare.



- Give your child a set of quadrilaterals and have them sort them (printable venn diagram: <https://goo.gl/ssWof3>) based on different attributes anyway they choose.
- Give your child a set of shapes and specific attributes to sort the shapes with. Examples include:
 - Right angles and Parallel sides
 - 2 sets of congruent sides and Obtuse Angles
 - All equal sides and Right Angles
- Florida Student Tutorial: Relationships Between Shapes <https://goo.gl/KFQnVR>
- Khan Academy: Classifying Quadrilaterals <https://goo.gl/CB1W2Q>
- NCTM Illuminations: Interactive Venn Diagram Sorter <https://goo.gl/4HvPYV>