

# Geometry Unit 3 Logical Argument and Constructions: Proof & Congruence



## Our Learning Goals:

### We will...

- ✓ find the midpoint of a segment and the distance between two points.
- ✓ use the properties of mid-segments, perpendicular bisectors, and angle bisectors to solve problems.
- ✓ identify and use the median and altitudes of triangles to solve problems.
- ✓ find the sum of the measures of interior and exterior angles of polygons.
- ✓ define, use the properties of, and classify quadrilaterals (parallelogram, rhombus, rectangle, trapezoid, kite, and square).

## Why do we study this?

- ❖ Being able to find the distance and midpoint of a certain location can be very helpful when we travel.
- ❖ Understanding properties of polygons and quadrilaterals is useful in careers such as engineering, architecture, real-estate, farming, and construction. It is also useful in everyday applications such as home improvement and DIY, gardening, or even planning a party.

## How we will show what we have learned...

Formative Assessments	Summative Assessments
Ongoing formative assessments during lesson & homework activities will help in monitoring learning and providing feedback for students.	Summative assessments to measure learning at the end of concepts will include the following: <ul style="list-style-type: none"><li>• Test: Relationships Within Triangles</li><li>• Test: Polygons and Quadrilaterals</li><li>• Unit 1C Fall Semester Exam (District-wide)</li></ul>

## Sample Problem:

Charles is cutting out rectangular pieces of cardboard for a project. He checks to see that they are rectangular by determining if the diagonals are perpendicular. Will this tell him whether a piece is a rectangle? Explain why or why not.

## Additional Support:

- Check the teacher web page and Canvas page for notes, activities, and assignments.
- Search the topic on the web. We recommend using Khan Academy.
- Attend tutorials.