



TEACHER PAGE

Lesson: Midpoint Formula in the Coordinate System

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New Arizona Math Strand 4 Geometry and Measurement Grades 9-12

Articulated 4MH3-05 Determine the midpoint between two points in a coordinate system.

Old Arizona Math Standard 4 Geometry Proficiency 2 Grades 9-12

4MP2-PO6 Determine the distance and midpoint between points within a coordinate system representative of a practical application.

Pre-requisite Information

The student should be familiar with the coordinate system.

Learning objectives: the student will be able to:

- demonstrate subscripted variables
- identify the ordered pair for a point in the coordinate system
- recognize the formula for finding the midpoint of a line segment
- find the midpoint of a line segment

Overview:

This is a step-by-step process lesson focusing on working with the formula for determining the midpoint of a line segment. The lesson moves deliberately through several examples and provides needed time to determine the calculations. The student cannot move forward in the lesson without determining the correct answers.

Classroom Management:

This can be used in large group lessons, small group, or individual assignments. Each student will move through the lesson at differing speeds.

Engaging Students:

Give an overview of the instances in geometric figures where midpoints are one of the attributes.

Follow-up:

Fantastic learning opportunities: DIG DEEPER has kittens and yarn to challenge you to find midpoints. Find the midpoint of a country in SO WHAT. TALK ABOUT IT—a game, Midpoint Mania.

Assessment:

Multiple-choice questions must be correctly responded to in order to finish the lesson.

