

IDT 7007

Lesson Plan

Ana Paez

NOVA Southeastern University

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Midpoint Formula Lesson Plan

Goal

This lesson will help students understand and apply the concepts of midpoint and midpoint formula in the coordinate plane.

Audience

This lesson is designed for 8th Grade Geometry Honors class at Somerset Academy Dade

Florida State Standard: MA.912.G.1.1

Learning Objective

After this lesson, geometry students will be able to find the coordinates of the midpoint of a line segment in the coordinate plane.

Technologies

- Khan Academy is an online platform that produces short lessons in the form of video. Students will use this tool to learn about midpoint formula and how it is used to find the coordinates of the midpoint of a line segment on the coordinate plane.
- GeoGebra is an interactive software where learners can construct points, vectors, line segments, etc. Students will use GeoGebra as a mini activity to apply what was learned during the lesson.
- Quizizz is an application designed to help students participating in group activities, assignments, and presentations. Quizzes are self-graded, and students received feedback on their responses once they submit their test. This tool will be used to assess students' understanding of the lesson.

A minute-by-minute timeline

- Watch the Khan Academy video: Midpoint Point Formula (6:40 minutes long). At the beginning of the video, the instructor makes a connection between the new topic and the previous topic. Once the connection is established, he continues the lesson explaining the new topic.
- After watching the video students will complete the Midpoint Formula activity from Geogebra. (2 minutes)
Students will be able to identify the midpoint of a line segment, using the GeoGebra tools. They will also be able to establish the connection between the concept of midpoint and midpoint formula.
- Once students finish the previous activity, they will take a quiz via Quizizz (5 minutes)
- At the end of the quiz, students will complete the students feedback survey. (1 minute)

Assessment Plan

Students will take quiz via Quizizz to demonstrate if they are able find the coordinates of the midpoint of a line segment in the coordinate plane. After submitting the answers, the scores and the correct answers are released for students to be seen.

Evaluation Plan

A student feedback survey will be available to students at the end of the quiz. This will allow the teacher the opportunity to know any concerns students might have about the lesson, and what it needs to be improved for future lessons.

Appendix
Peer-Review Form