



This course supports the assessments for Middle School Mathematics: Content Knowledge. The course covers 10 competencies and represents 7 competency units.

Introduction

Course Overview

Mathematics: Middle School Content Knowledge is designed to help students refine and integrate the mathematics content knowledge and skills necessary to become a successful middle school mathematics teacher. A high level of mathematical reasoning skills and the ability to solve problems are necessary to complete this course. Prerequisites for this course are College Geometry, Probability and Statistics I, and Pre-Calculus.

Getting Started

Welcome to Middle School Mathematics: Content Knowledge! The course materials have been designed and selected by the Course Instructor team to effectively prepare you for the Praxis Subject Assessment Middle School: Mathematics (5169). To get started, click the "Launch Course" button and review the information presented. Internet Explorer is not recommended for viewing course content. The information below the launch button will help you when you are ready to take your practice exams and Praxis Subject Assessment exam upon completion of the course study.

Teaching Dispositions Statement

Please review the [Statement of Teaching Dispositions](#)

Preparing for Success

The information in this section is provided to detail the resources available for you to use as you complete this course.

Learning Resources

The following learning resources have been selected to help you complete this course successfully.

Practice Exams

Follow the instructions within the course to check your readiness with practice exams. The following instructions explain how to access these practice exams.

Exam Edge

Exam Edge provides full-length practice exams designed specifically to help students prepare for the Middle School Mathematics (5169) exam. These practice exams include a review page that contains detailed step-by-step explanations for each question in the exam. You may access



the following tests at [Exam Edge for Middle School Mathematics \(5169\)](#):

- Free Practice Exam
- 3 Practice Exams (already paid for by WGU)
- Additional tests available for purchase (not recommended for most students)

ETS Practice Exam

The [ETS Practice Exam](#) is a full-length practice test that allows you to work through a set of test questions to simulate what you will experience on the actual day of the PRAXIS exam. After a completed attempt, you can view your score and review explanations for the correct answers. You will have unlimited attempts regardless of any notice to the contrary on the ETS website. This practice test includes one set of test questions. Retaking it will not provide different sets of questions or change the order in which they are delivered.

Launch Your Course

When you are ready to begin the course, click the "Launch Course" button:

[Launch Course](#)

Assessment Information

Payment

WGU will pay for your first two attempts at the Praxis Subject Assessment Middle School: Mathematics (5169) exam. You will be responsible for paying third and subsequent attempts. WGU will not pay for extended or emergency registration, so be sure to plan ahead when scheduling the exam (schedule at least four weeks in advance). Please see the [Test and Service Fees Web page](#) for detailed information on registering and test and service fees.

Scheduling

The Praxis Subject Assessment Middle School: Mathematics (5169) exam is only offered as a computer-delivered test. Please visit the [Computer-delivered Test Centers and Dates Web page](#) for a list of available sites and testing windows. These tests are offered only during certain time frames and not all test centers are open on all test dates, so plan accordingly (schedule at least four weeks in advance).

Once you have selected a testing center and date, use the directions on the [Accessing Objective and Outside Vendor Assessments Web page](#) to schedule your exam.

Note: You must schedule your Praxis exam through WGU in order to have WGU pay for the exam.

Submit Your Score



You will need to submit your scores to WGU after completing this exam. Once you have submitted your passing score, you will receive a "Pass" on your Degree Plan for the assessment. After completing an outside vendor assessment, follow the directions for submitting a score report on the [Following Outside Vendor Assessments Web page](#).

Competencies

Competencies

This course provides guidance to help you demonstrate the following 10 competencies:

- **Competency 124.1.1: Real Numbers and Algebraic Expressions**
The graduate uses properties of numbers to analyze and evaluate numeric and algebraic expressions.
- **Competency 124.1.2: Equations and Inequalities**
The graduate solves equations and inequalities and applies them to model data and solve problems.
- **Competency 124.1.3: Graphs and Functions**
The graduate analyzes and interprets functions using multiple representations.
- **Competency 124.1.4: Polynomial and Rational Functions**
The graduate solves polynomial and rational functions and applies them to model data and solve problems.
- **Competency 124.1.5: Exponential and Logarithmic Functions**
The graduate solves exponential and logarithmic functions and applies them to model data and solve problems.
- **Competency 124.1.6: Systems of Equations**
The graduate analyzes and solves systems of linear equations.
- **Competency 209.1.1: Discrete Mathematics**
The graduate applies the fundamental ideas of discrete mathematics including logic, set theory, and graph theory in formulating and solving problems.
- **Competency 214.1.2: Examining Relationships**
The graduate evaluates the relationship between two variables through the creation and interpretation of numerical summaries and visual displays.
- **Competency 214.1.6: Determining Probability**
The graduate determines the probability of events using simulations, diagrams, and probability rules.
- **Competency 218.1.2: Properties and Relationships**
The graduate applies synthetic and analytic methods to construct proofs and solves problems involving the properties and relationships of two-dimensional objects.