



# Demonstration of Professional Competencies & Depth of Content Knowledge

Initial or Alternative Teacher License Evaluation Worksheet

Middle School Mathematics (Grades 6-8)

## Applicant

Legal name:

Date:

## Requirements

Endorsement content knowledge must be demonstrated by at least one of the following measures for each content area (check below). Please note, if you select a portfolio option to demonstrate a content knowledge category, it is your responsibility to ensure that evidence provided aligns with the Colorado Department of Education's teacher preparation standards. For more information about educator preparation standards, please see [this webpage](#). To learn more about content covered on Praxis exams, please visit [this webpage](#).

### Middle School Mathematics

- Praxis 5164: Official score report required (157 or higher)
  - Praxis 5169 (165 or higher) *if taken between 09.01.2018 and 08.31.2022- accepted thru 08.31.2027*: official score report required
- Coursework: Minimum of B- (list in grid below); syllabi and official transcript required
- Portfolio: Evidence demonstrating attainment of standards outlined below required

In the grids below, list the evidence by which you are demonstrating content knowledge. It is essential that thorough and complete information is provided for each row inclusive of listing all courses and evidence being utilized. Praxis subscores may be one piece of evidence for a section of content and also must be accompanied by additional evidence such as coursework.

MIDDLE SCHOOL MATHEMATICS	Praxis Test Code/Name and Score:	
Categories for which you must demonstrate content knowledge	Course #(s)/Title(s) and Grade(s)	Portfolio Description and Evidence
Candidates must possess knowledge of concepts, including:		
Numbers and Operations <ul style="list-style-type: none"> <li>• Real number system</li> <li>• Fractions, decimals, and percents</li> <li>• Ratios and proportional relationships</li> <li>• Quantitative reasoning</li> <li>• Number theory</li> <li>• Example courses include the following: Number Theory, Discrete Mathematics, Graph Theory, Intro to Mathematical Modeling</li> </ul>		
Algebra <ul style="list-style-type: none"> <li>• Algebraic expressions, equations, and formulas</li> </ul>		



<ul style="list-style-type: none"> <li>• Linear relationships</li> <li>• Equations and inequalities</li> <li>• Systems of equations and inequalities</li> <li>• Example courses include the following: College Algebra, Linear Algebra</li> </ul>		
<p>Functions</p> <ul style="list-style-type: none"> <li>• Functions</li> <li>• Domain and range</li> <li>• Linear functions</li> <li>• Functions, tables, and graphs</li> <li>• Function modeling</li> <li>• Linear, quadratic, and exponential function models</li> <li>• Arithmetic sequences</li> <li>• Example courses include the following: Elementary Functions, Functions and Modeling</li> </ul>		
<p>Geometry and Measurement</p> <ul style="list-style-type: none"> <li>• Types of lines</li> <li>• Triangles</li> <li>• Quadrilaterals/polygons</li> <li>• Transformations</li> <li>• Congruence and similarity</li> <li>• Circles</li> <li>• xy-plane relationships</li> <li>• Perimeter and area</li> <li>• Solids</li> <li>• Systems of measurement</li> <li>• Example courses include the following: Modern Geometry (i.e., includes non-Euclidian Geometry), Geometric Transformations, Plane Trigonometry</li> </ul>		
<p>Statistics and Probability</p> <ul style="list-style-type: none"> <li>• Statistical processes</li> <li>• Display data in a variety of ways</li> <li>• Measures of central tendency and dispersion</li> <li>• Probability models</li> <li>• Example courses include the following: Introduction to Statistics, Probability and Statistics</li> </ul>		

Submission of this worksheet must be accompanied by all evidence listed in the grids above. You must receive approval prior to submitting an application for an initial teacher license.