

## **Certification Staffing Assignment Mathematics 7-12**

Mathematics is a group of instructional programs that describe the systematic study of logical symbolic language, its application, the analysis of quantities, magnitudes, forms and their relationships, using symbolic logic and language.

### Grade Level Scope of Certificate

### Certification Assignment

### Certificate Clarification

### Special Considerations

### References

### Summary of Changes

### **Grade Level Scope of Certificate:**

A person holding a valid Pennsylvania certificate for Mathematics is qualified to teach mathematics courses in grades 7 through 12.

### **Certification Assignment:**

A person holding a valid Pennsylvania certificate for Mathematics is qualified to teach courses in areas such as: general mathematics, algebra, trigonometry, geometry, calculus, functional analysis, number theory, logic, mathematic statistics and probability, business mathematics, technology courses specific to mathematics, applied mathematics and STEM (Science, Technology, Engineering and Mathematics) courses. (Other Instructional certificates may teach STEM courses based on course content and the type of credit being given.)

A Pennsylvania certified mathematics teacher may teach computer software, as well as programming courses which are offered for mathematics credit.

A person holding a certificate endorsed for a subject area which is limited to the secondary grades (7-12) is qualified for assignment only within the sixth (6<sup>th</sup>) grade in the subject area of the certificate they hold.

### **Certificate Clarification:**

An educator holding an older valid Pennsylvania certificate for Physics and Mathematics may teach mathematics in grades 7-12.

### **Special Considerations:**

- An educator certified in this field may:
  - Provide professional development;

- Serve in the role of mentor or advisor; and
- Assist students in understanding how to read content area materials.

**References:**

Program Specific Guidelines for Mathematics Certification

PA Public School Code: §1202  
 §1212  
 §1604  
 §1511

22 PA Code: Chapter 4: §4.22(c)(2)  
 §4.23(c)(2)

Chapter 49: §49.11  
 §49.81  
 §49.85(4)

Other CSPGs for Reference: Business, Computer and Information Technology, Technology Education K-12, Physics 7-12, General Science 7-12.

This revision supersedes all earlier CSPG’s carrying this number and/or addressing this subject. Previous printing dates on this subject: 2/61, 3/75, 12/90, 7/04.

**Summary of Changes**

<b>Date of Revisions</b>	<b>Major Changes to CSPG #50</b>
12/1/2014	<ul style="list-style-type: none"> <li>• Added staffing information for teaching STEM courses.</li> <li>• Clarified content of the CSPG.</li> <li>• Added information about teaching sixth grade content with a 7-12 content certificate.</li> </ul>
7/1/2004	<ul style="list-style-type: none"> <li>• Specified that computer software and programming courses related to mathematics and for mathematics credit could be taught under a Mathematics 7-12 certificate.</li> <li>• Mathematics certificate content courses listed in this CSPG: general mathematics, algebra, trigonometry, geometry, calculus, functional analysis, number theory, logic, mathematic statistics and probability, business mathematics, and applied mathematics.</li> <li>• May provide professional development courses in the certificate area.</li> <li>• May assist students with “reading” content of the certificate area.</li> </ul>
12/1/1990	<ul style="list-style-type: none"> <li>• Title CSPG #57</li> </ul>

<b>Date of Revisions</b>	<b>Major Changes to CSPG #50</b>
	<ul style="list-style-type: none"> <li>• Addresses Applied Mathematics as designed to help secondary students develop and refine career-related mathematics skills.</li> <li>• Elementary certified individuals may teach K-6 Mathematics or in an approved middle school.</li> <li>• At the 7-12 grade level, an Elementary Certificate may be used to teach remedial math to secondary grade students whose math achievement norms are below grade 7.</li> <li>• A person holding any area of business education may teach business or commercial arithmetic under Business CSPG #38 (3/92).</li> <li>• Vocational education areas and industrial arts may teach the application and use of mathematics within their respective certificate area.</li> </ul>
3/1/1975	<ul style="list-style-type: none"> <li>• Titled CSPG #75</li> <li>• Certificates for branches of mathematics existed (algebra, geometry, trigonometry, etc.) and holders could teach that specific mathematics branch at any grade level in which it existed.</li> <li>• A person holding a Mathematics 7-12 certificate can only teach mathematics at the 7-12 grade level.</li> <li>• A person holding an Elementary K-6 certificate may teach mathematics in K-6 grades.</li> <li>• Certified business teachers may teach business mathematics.</li> <li>• Certified trade-and-industrial education or industrial arts teachers may teach the application and use of shop mathematics within the areas of their respective certificates.</li> </ul>
2/1/1961	<ul style="list-style-type: none"> <li>• College Certificates in Secondary Academic Subjects Physics and Mathematics.</li> <li>• A College Provisional certificate for Physics and Mathematics existed.</li> <li>• Required 36 credits (at least 12 in each area, Physics and Mathematics).</li> </ul>