

**Certification Staffing Assignment
MATHEMATICS**

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:

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

Certification Assignment:

A person holding a valid PA 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.

A person holding a certificate for Mathematics is qualified to teach any course where at least 50 percent of the content is contained in PA math standards. However, a person holding a certificate for Mathematics may not teach a course where 50% or more of the content is contained in the respective standards if that subject area is reserved to another certificate area.

The PA certified mathematics teacher may teach computer software, as well as programming, courses which are related to mathematics such as spread sheets, data bases and content oriented software programs

The Pa certified teacher may teach applied mathematics, a program that describes the application of mathematical principles to the solution of functional area problems, using the knowledge base of the subject or field for which the analytical procedures are being developed. It includes instruction in computer assisted mathematical analysis and the development of tailored algorithms for solving specific research problems.

At the middle level, the Mathematics educator will also provide Mathematics instruction, adjusted to the students' abilities when below proficient.

Certificate Clarification:

An educator holding an older valid PA certificate for Physics and Mathematics may also teach the same mathematics planned instruction in grades 7-12.

CSPG No. 50
July 1, 2004

Special Considerations:

An educator certified in this field may provide school staff development services regarding their collegial studies/skills, may serve in the role of mentor and advisor, and may assist students in understanding the “reading” content area materials related to this subject area.

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

THIS REVISION SUPERSEDES ALL EARLIER CSPG'S CARRYING THIS NUMBER AND/OR ADDRESSING THIS SUBJECT. PREVIOUS PRINTING DATES ON THIS SUBJECT: 10/76, 1/87, 12/90