# Template for 2042 Single Subject Matter Standards for Mathematics Program Narrative

**(For guidance see** [**http://www.ctc.ca.gov/educator-prep/STDS-subject-matter.html**](http://www.ctc.ca.gov/educator-prep/STDS-subject-matter.html) **)**

## Category I: Standards Common to All

| **Standards** | **Narrative responses including examples and link to supporting documentation** |
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| **Standard 1: Program Design**Subject matter programs are based on an explicit statement expressing the purpose, design, and expected outcomes of the program.  |  |
| **Standard 1: Program Design**The program curriculum builds on the K-12 State-adopted academic content standards, with student outcomes and assessments aligned to the subject matter requirements. |  |
| **Standard 1: Program Design**The program provides prospective teachers with conceptual knowledge of the subject matter, develops academic literacy and discipline-based fluency, addresses issues of equity and diversity, and exposes prospective teachers to a variety of learning experiences appropriate for the discipline. |  |
| **Standard 2:** **Program Resources and Support**The program sponsor allocates resources to support effective program coordination, which includes advising students, facilitating collaboration among stakeholders, and overseeing program review. |  |
| Ongoing review processes use assessments of the prospective teachers and a variety of data such as input from stakeholders and other appropriate measurements for review and evaluation of the subject matter program. |  |

## Category II: Program Standards

| Standards | **Narrative responses including examples and link to supporting documentation** |
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| **Standard 3: Required Subjects of Study**In the program, each prospective teacher studies and learns advanced mathematics that incorporates the Mathematics Content Standards for California Public Schools: Kindergarten Through Grade Twelve(1997) and the Mathematics Framework for California Public Schools: Kindergarten Through Grade Twelve (1999). |  |
| **Standard 3: Required Subjects of Study**The curriculum of the program addresses the *Subject Matter Requirements* and standards of program quality as set forth in this document.[[1]](#footnote-1) |  |
| **Standard 4: Problem Solving**In the program, prospective teachers of mathematics develop effective strategies for solving problems both within the discipline of mathematics and in applied settings that include non-routine situations. |  |
| **Standard 4: Problem Solving**Problem-solving challenges occur throughout the program of subject matter preparation in mathematics. |  |
| **Standard 4: Problem Solving**Through coursework in the program, prospective teachers develop a sense of inquiry and perseverance in solving problems. |  |
| **Standard 5: Mathematics as Communication**In the program, prospective teachers learn to communicate their thinking clearly and coherently to others using appropriate language, symbols and technologies. |  |
| **Standard 5: Mathematics as Communication**Prospective teachers develop communication skills in conjunction with mathematical literacy in each major component of a subject matter program. |  |
| **Standard 6: Reasoning**In the program, prospective teachers of mathematics learn to understand that reasoning is fundamental to knowing and doing mathematics. |  |
| Standard 6: ReasoningReasoning and proof accompany all mathematical activities in the program. |  |
| **Standard 7: Mathematical Connections**In the program, prospective teachers of mathematics develop a view of mathematics as an integrated whole, seeing connections across different mathematical content areas. |  |
| **Standard 7: Mathematical Connections**Relationships among mathematical subjects and applications are a consistent theme of the subject matter program’s curriculum[[2]](#footnote-2). |  |
| **Standard 8: Delivery of Instruction**In the program, faculty use multiple instructional strategies, activities and materials that are appropriate for effective mathematics instruction. |  |

**\*Calculus and history of mathematics are not required subjects of study for the foundational-level credential.**

1. The Subject Matter Requirements are complemented by the **Attachment to Standard 11**, starting on page 32 [↑](#footnote-ref-1)
2. The Subject Matter Requirements are complemented by the **Attachment to Standard 11**, starting on page 32. [↑](#footnote-ref-2)