

Math 8-12 Certificate Standards Correlation Chart Educator Preparation Program

Please indicate where in the curriculum your program addresses the relevant Math 8-12 standards, domains and competencies. <i>TAC§228.30 (a)</i>	Identify Courses, Modules, and/or Training																									
Standard I: Domain I: Number Concepts: Competency 001-003: The mathematics teacher understands and uses numbers, number systems and their structure, operations, and algorithms, quantitative reasoning, and technology appropriate to teacher the statewide curriculum (Texas Essential Knowledge and Skills [TEKS]) in order to prepare students to use mathematics.																										
Standard II: Domain II: Competency 004-010: Patterns and Algebra: The mathematics teacher understands and uses patterns, relations, functions, algebraic reasoning, analysis and technology appropriate to teach the statewide curriculum [TEKS] in order to prepare students to use mathematics.																										
Standard III: Domain III: Competency 011-014: Geometry and Measurement: The mathematics teacher understands and uses geometry, spatial reasoning, measurement concepts and principles, and technology appropriate to teach the statewide curriculum [TEKS] in order to prepare students to use mathematics.																										
Standard IV: Domain IV: Competency 015-017: Probability and Statistics: The mathematics teacher understands and uses probability and statistics, their applications, and technology appropriate to teach the statewide curriculum [TEKS] in order to prepare students to use mathematics.																										
Standard V: Domain V: Competency 018-019: Mathematical Processes: The mathematics teacher understands and uses mathematical processes to reason mathematically, to solve mathematical problems, to make mathematical connections within and outside of mathematics, and to communicate mathematically.																										
Standard VI: Domain V: Competency 018-019: Mathematical Perspectives: The mathematics teacher understands the historical development of mathematical ideas, the interrelationship between society and mathematics, the structure of mathematics, and the evolving nature of mathematics and mathematical knowledge.																										
Standard VII: Domain VI: Competency 020: Mathematical Learning and Instruction: The mathematics teacher understands																										

<p>how children learn and develop mathematical skills, procedures, and concepts, knows typical errors students make, and uses this knowledge to plan, organize, and implement instruction to meet curriculum goals; and to teach all students to understand and use mathematics.</p>																											
<p>Standard VIII: Domain VI: Competency 021: Mathematical Assessment: The mathematics teacher understands assessment and uses a variety of formal and informal assessment techniques appropriate to the learner on an ongoing basis to monitor and guide instruction and to evaluate and report student progress.</p>																											
<p>Standard IX: Professional Development: The mathematics teacher understands mathematics teaching as a profession, knows the value and rewards of being a reflective practitioner, and realizes the importance of making a lifelong commitment to professional growth and development.</p>																											