MISSOURI EDUCATOR GATEWAY ASSESSMENTS

Field 065 Elementary Mathematics Specialist

Content Alignment Table

The Content Alignment Study below provides information about the alignment of knowledge and skills described in the competencies that make up the test framework for this licensure test with the state and national standards designated by the Department of Elementary and Secondary Education for this field. The table indicates those portions of the relevant state and/or national standards that are addressed -- in whole or in part -- by each competency.

Test Competency	Missouri Department of Elementary and Secondary Education (Spring 2016) K–5 Mathematics Grade-Level Expectations Grades 1–5	Missouri Department of Elementary and Secondary Education (Spring 2016) 6–12 Mathematics Grade-Level Expectations Grade 6	The National Council of Teachers of Mathematics (NCTM) (2012) NCTM CAEP Mathematics Content for Elementary Mathematics Specialist – Addendum to the NCTM CAEP Standards
Number Concepts and Operations			
0001 Analyze the structure of number systems and the properties of the real number system.	1.NS.A; 1.NBT.A; 2.NBT.A; 3.NBT.A.1–2; 3.NF.A; 4.NBT.A.1–4; 4.NF.A; 5.NBT.A.1–5; 5.NF.A	6.NS.C	C.1.1
0002 Analyze number operations and computational algorithms.	1.NBT.B; 1.RA.A.1–2; 1.RA.B.1; 1.RA.C; 1.GM.A.4; 2.NBT.B, C; 2.RA.A, B; 2.GM.A.3; 3.NBT.A.3–4; 3.RA.A.1–4; 3.RA.B, C; 3.RA.D.1; 3.GM.A.3; 4.NBT.A.5–7; 4.NF.B; 4.RA.B; 5.NBT.A.6–8; 5.NF.B; 5.RA.B.1	6.NS.A, B	C.1.2–1.4

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Algebra and Functions			
0003 Analyze patterns and algebraic expressions.	1.RA.A.3–4; 1.RA.B.2; 3.RA.A.5; 3.RA.D.2; 3.RA.E; 4.RA.A, C; 5.RA.A; 5.RA.B.2; 5.RA.C	6.EEI.A, B, C	C.2.1
0004 Apply linear functions to model and solve problems.	none at this level	6.RP.A	C.2.2–2.4
Geometry and Measurement			
0005 Apply concepts of measurement.	1.GM.B, C; 2.GM.A.2; 2.GM.B; 2.GM.C.1; 2.GM.D; 3.GM.B, C, D; 4.GM.B, C; 5.GM.B, D	6.GM.A.1–2, 4b	C.3.6
0006 Apply concepts of Euclidean, transformational, and coordinate geometry.	1.GM.A.1–3; 2.GM.A.1; 2.GM.C.2; 3.GM.A.1–2; 4.GM.A; 5.GM.A, C	6.GM.A.3, 4a	C.3.1–3.5, 3.7, 3.8

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Data Analysis and Probability			
0007 Analyze and interpret data.	1.DS.A; 2.DS.A; 3.DS.A; 4.DS.A; 5.DS.A	6.DSP.A, B	C.4.1, 4.2
0008 Apply concepts of probability.	none at this level	none at this level	C.4.3, 4.4
Pedagogical Knowledge and Instructional Leadership			
0009 Demonstrate knowledge of mathematics instruction and assessment.	not applicable	not applicable	not applicable
0010 Demonstrate knowledge of instructional leadership in mathematics.	not applicable	not applicable	not applicable