Field 202 – Middle Grades (5-8) Mathematics
Alignment of Test Framework Objectives with State Standards

Illinois Licensure Testing System Framework Objectives for Middle Grades (5-8) Mathematics	State Board of Education Rules-Title 23 of the Illinois Administrative Code-21.150	State Board of Education Rules-Title 23 of the Illinois Administrative Code-21.120
Subarea I: Core Content		
0001 Understand calculus.	a.1.A-B; a.1.D-J	
0002 Understand college statistics.	a.1.B; a.1.E-G; a.2.A-B; a.2.D; a.2.H-I; c.6.E	
Subarea II: Fractions, Ratios, and The Number System		
0003 Understand ratios and proportional relationships.	c.2.A; c.2.E; c.2.F; c.3.D; 3.c.F; d.1-9; e.1-5; f.1-6	
0004 Understand the structure and properties of the real number system.	c.3.A-C; c.3.E-F; c.4.J; d.1-9; e.1-5; f.1-6	
Subarea III: Relations, Functions, and Algebra		
0005 Understand expressions and equations.	c.4.A-E; c.4.G; c.4.I-J; d.1-9; e.1-5; f.1-6	
0006 Understand relations and functions.	c.2.I; c.4.H; c.7.A-C; d.1-9; e.1-5; f.1-6	
0007 Understand linear functions and relations.	c.4.D; c.4.G; c.7.A-C; d.1-9; e.1-5; f.1-6	
0008 Understand nonlinear functions.	c.7.C; d.1-9; e.1-5; f.1-6	
Subarea IV: Measurement and Geometry		
0009 Understand the principles of two- and three-dimensional geometry.	c.3.E; c.5.B; c.5.E; c.5.G-H; d.1-9; e.1-5; f.1-6	
0010 Understand the principles of coordinate and transformational geometries.	c.5.A-D; c.5.F-G; d.1-9; e.1-5; f.1-6	
Subarea V: Probability and Statistics		
0011 Understand the principles and techniques of probability.	c.6.F; d.1-9; e.1-5; f.1-6	

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0012 Understand the principles and techniques of statistics.	c.6.A-D; d.1-9; e.1-5; f.1-6	
Subarea VI: Disciplinary Literacy in Mathematics		
0013 Apply knowledge of foundations of research-based disciplinary literacy instruction and assessment.		a.1-5; b.1.A-C; b.2.A; c.1.A; d.1-6; e.1-6; f.1-5; g.1-5
0014 Apply knowledge of academic-language and vocabulary development to support students' disciplinary literacy development in the mathematics classroom.		b.1.D-E; c.2.K; c.4.A-F
0015 Apply knowledge of reading comprehension to support students' disciplinary literacy development in the mathematics classroom.		b.2.B-D; c.1.B-N
0016 Apply knowledge of the development of writing, listening, and speaking skills to support students' disciplinary literacy development in the mathematics classroom.		c.2.A-J, L; c.3.A-D