

Integrated Math 2 Exam  
 Blueprint Summary  
 Rapid City Area Schools

CCSS Category & Clusters	% of Questions included in the Test	Question Number	CCSS Standard(s)	Webb's DOK
<b>Algebra</b> <ul style="list-style-type: none"> <li>➤ Interpret the structure of expressions</li> <li>➤ Write expressions in equivalent forms to solve problems</li> <li>➤ Create equations that describe numbers or relationships</li> <li>➤ Understand solving equation as a process of reasoning and explain the reasoning</li> <li>➤ Solve equations and inequalities in one variable</li> <li>➤ Solve systems of equations</li> <li>➤ Represent and solve equations and inequalities graphically</li> </ul>	30%	24	A.CED.1	DOK 2
		58	A.CED.1	DOK 2
		35	A.CED.2	DOK 3
		43	A.CED.2	DOK 1
		28	A.CED.3	DOK 1
		32	A.CED.4	DOK 3
		38	A.REI.11	DOK 2
		56	A.REI.2	DOK 2
		2	A.REI.3	DOK 2
		29	A.REI.3	DOK 2
		34	A.REI.3	DOK 1
		36	A.REI.3	DOK 2
		33	A.REI.4	DOK 2
		53	A.REI.4	DOK 2
		37	A.REI.6	DOK 2
		26	A.SSE.3	DOK 2
49	A.REI.6	DOK 2		
45	A.REI.7	DOK 2		
11	A.SSE.1	DOK 1		
<b>Functions</b> <ul style="list-style-type: none"> <li>➤ Understand the concept of a function and use function notation</li> <li>➤ Interpret functions that arise in applications in terms of the context</li> <li>➤ Build new functions from existing functions</li> </ul>	15%	3	F.IF.1	DOK 2
		50	F.IF.1	DOK 2
		4	F.IF.4	DOK 2
		7	F.IF.4	DOK 2
		8	F.IF.4	DOK 2
		44	F.IF.4	DOK 1
		60	F.IF.4	DOK 2
		39	F.IF.6	DOK 2

<b>Geometry</b> ➤ Experiment with transformations in the plane ➤ Understand congruence in terms of rigid motions ➤ Prove theorems involving similarity ➤ Define trigonometric ratios and solve problems involving right triangles ➤ Apply trigonometry to general triangles ➤ Translate between the geometric description and the equation for a conic section ➤ Use coordinates to prove simple geometric theorems algebraically ➤ Explain volume formulas and use them to solve problems ➤ Apply geometric concepts in modeling situations	35%	51	G.CO.11	DOK 2
		57	G.CO.11	DOK 2
		59	G.CO.3	DOK 2
		12	G.CO.4	DOK 2
		47	G.GMD.1	DOK 2
		55	G.SRT.2	DOK 1
		30	G.GPE.1	DOK 3
		19	G.GPE.5	DOK 3
		22	G.GPE.5	DOK 2
		52	G.GPE.5	DOK 2
		13	G.GPE.6	DOK 3
		16	G.GPE.6	DOK 2
		41	G.GPE.6	DOK 2
		21	G.GPE.7	DOK 2
		31	G.GPE.7	DOK 2
		10	G.SRT.11	DOK 1
		15	G.SRT.5	DOK 3
1	G.SRT.8	DOK 2		
14	G.SRT.8	DOK 2		
17	G.SRT.8	DOK 2		
20	G.SRT.8	DOK 2		
<b>Statistics &amp; Probability</b> ➤ Summarize, represent, and interpret data on a single count or measurement variable ➤ Summarize, represent, and interpret data on two categorical and quantitative variables ➤ Interpret linear models ➤ Understand and evaluate random processes underlying statistical experiments ➤ Understand independence and conditional probability and use them to interpret data ➤ Use the rules of probability to compute probabilities of compound events in a uniform probability model	20%	27	S.CP.2	DOK 2
		42	S.CP.2	DOK 2
		23	S.CP.6	DOK 1
		25	S.CP.6	DOK 2
		54	S.CP.6	DOK 3
		6	S.IC.1	DOK 3
		18	S.ID.2	DOK 1
		9	S.ID.5	DOK 2
		46	S.ID.5	DOK 2
		5	S.ID.6	DOK 3
		40	S.ID.8	DOK 3
		48	S.ID.8	DOK 3