

APPENDIX C
TEST DESIGN AND BLUEPRINT SPECIFICATIONS

2021 Grades 3 & 4—ELA

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
SR1	9	13	15	21	24	34
SR2	2		3		5	
CR	0	0	1	3	1	3
ES	1	7	0	0	1	7
Total Items	12	20	19	24	31	44

Item Types: 1 SR1 = MC; 2 SR2 = TEI, TECR, 2-pt MC, EBSR; 3 CR (hand scored); 7 ES (hand scored)

Reporting Categories	G3/4	
Reading	65%	+/-5%
Language	25%	+/-5%
Writing	10%	+/-5%
Totals	100%	

2021 Grade 5—ELA

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
SR1	9	13	15	21	24	34
SR2	2		3		5	
CR	0	0	0	0	0	0
ES	1	7	1	7	2	14
Total Items	12	20	19	28	31	48

Item Types: 1 SR1 = MC; 2 SR2 = TEI, TECR, 2-pt MC, EBSR; 3 CR (hand scored); 7 ES (hand scored)

Reporting Categories	G5	
Reading	55%	+/-5%
Language	25%	+/-5%
Writing	20%	+/-5%
Totals	100%	



2021 Grades 6–8—ELA

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
SR1	9	13	15	21	24	34
SR2	2		3		5	
CR	0	0	0	0	0	0
ES	1	8	1	8	2	16
Total Items	12	21	19	29	31	50

Item Types: 1 SR1 = MC; 2 SR2 = TEI, TECR, 2-pt MC, EBSR; 3 CR (hand scored); 7 ES (hand scored)

Reporting Categories	G6-8	
Reading	55%	+/-5%
Language	25%	+/-5%
Writing	20%	+/-5%
Totals	100%	

2021 Grade 10—ELA

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
SR1	12	12	9	9	21	21
SR2	4	8	3	6	7	14
CR	0	0	0	0	0	0
ES	2	16	0	0	2	16
Total Items	18	36	12	15	30	51

Item Types: 1 SR1 = MC; 2 SR2 = TEI, TECR, 2-pt MC, EBSR; 3 CR (hand scored); 7 ES (hand scored)

Reporting Categories	G6-8	
Reading	55%	+/-5%
Language	25%	+/-5%
Writing	20%	+/-5%
Totals	100%	



2021 Grade 3—Mathematics

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
MS1	18	18	18	18	36	36
HS3	2	6	2	6	4	12
Total Items	20	24	20	24	40	48
Matrix (Equating and/or Field Test) per form	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
Total Items	2	2	2	4	4	6
Total Student Experience	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
	22	26	22	28	44	54

	Max Points	Scored	
Item Types:	1	MS1	MC/S/FIB
	1	MS1	TEI
	3	HS3	OR

Reporting Category		Percents	Points
OA	Operations & Algebraic Thinking	30%	14-15
NBT	Number & Operations in Base Ten	15%	7-8
NF	Number & Operations-Fractions	20%	9-10
MD	Measurement & Data	25%	12
G	Geometry	10%	4-5



2021 Grade 4–6—Mathematics

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
MS1	17	17	17	17	34	34
MS2	1	2	1	2	2	4
HS4	2	8	2	8	4	16
Total Items	20	27	20	27	40	54
Matrix (Equating and/or Field Test) per form	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
Total Items	2	2-3	2	5-6	4	7-8
Total Student Experience	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
	22	29-30	22	32-33	44	61-62

	Max Points	Scored	
Item Types:	1	MS1	MC/S/FIB
	1	MS1	TEI
	2	MS2	
	4	HS4	OR

Reporting Category		G4		G5		G6	
		Percents	Points	Percents	Points	Percents	Points
G	Geometry	20%	10-11	15%	8	15%	8
RP	Ratios & Proportional Relationships	20%	10-11	30%	16	20%	10-11
NS	The Number System	30%	16	25%	13–14	20%	10-11
EE	Expressions & Equations	20%	10-11	20%	10–11	30%	16
SP	Statistics & Probability	10%	5-6	10%	5–6	15%	8



2021 Grade 7–8—Mathematics

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
MS1	17	17	17	17	34	34
MS2	1	2	1	2	2	4
HS4	2	8	2	8	4	16
Total Items	20	27	20	27	40	54
Matrix (Equating and/or Field Test) per form	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
Total Items	3	6-7	3	6-7	6	12-14
Total Student Experience	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
	23	33-34	23	33-34	46	66-68

	Max Points	Scored	
Item Types:	1	MS1	MC/S/FIB
	1	MS1	TEI
	2	MS2	
	4	HS4	OR

Reporting Category		G7		G8	
		Percents	Points	Percents	Points
G	Geometry	15%	8	30%	16
RP	Ratios & Proportional Relationships	20%	10-11	5%	3
NS	The Number System	20%	10-11	35%	19
EE	Expressions & Equations	25%	13-14	10%	5-6
SP	Statistics & Probability	20%	10-11	20%	10-11



2021 Grade 10—Mathematics

Common	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
MS1	16	16	16	16	32	32
MS2	3	6	3	6	6	12
HS4-OR	2	8	2	8	4	16
Total Items	21	30	21	30	42	60
Matrix (Equating and/or Field Test) per form	Session 1		Session 2		Total	
	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
Total Items	5	12	5	12	10	24
Total Student Experience	Number	Tot Pts	Number	Tot Pts	Number	Tot Pts
	26	42	26	42	52	84

	Max Points	Scored	
Item Types:	1	MS1	MC/S/FIB
	1	MS1	TEI
	2	MS2	
	4	HS4	OR

Reporting Categories	New	
	% (+/- 5%)	Total # of Pts
Number & Quantity	15%	9
Algebra & Functions	35%	21
Geometry	35%	21
Statistics & Probability	15%	9



2021 Grades 5 & 8—STE

	Session 1			Session 2			Total		
	Quantity	Total points		Quantity	Total points		Quantity	Total points	
Common	Module (stimulus)	1	0	Module (stimulus)	1	0	Module (stimulus)	2	0
	MS1	3	3	MS1	3	3	MS1	6	6
	HS3	1	3	HS3	1	3	HS3	2	6
	Discrete			Discrete			Discrete		
	MS1	12	12	MS1	14	14	MS1	26	26
	MS2	2	4	MS2	1	2	MS2	3	6
	HS2	1	2	HS2	1	2	HS2	2	4
	HS3	1	3	HS3	1	3	HS3	2	6
	Total Items	20	27	Total Items	21	27	Total Items	41	54
	Matrix (Equating and/or Field Test) per form	Session 1			Session 2				
Number of Items		Total points		Number of Items	Total points				
	Total	4	6	Total	3	4			
Total Student Experience	Session 1			Session 2					
	Number of Items	Total points		Number of Items	Total points		Number	Total points	
	Session 1	24	33	Session 2	24	31	Total Items	48	64



Blueprints

Code	Reporting Categories	Grade 5		Grade 8	
		%	Points	%	Points
1	Earth and Space Science	26	14	25	13-14
2	Life Science	26	14	25	13-14
3	Physical Science	26	14	25	13-14
4	Technology/Engineering	22	12	25	13-14

Cognitive Skill	%	Points
Understanding/Applying	35-50	19-27
Analyzing	40-50	22-27
Evaluating/Creating	10-20	6-11

Computer Test

Item Types: machine scored 1 or 2 points (MS1 or MS2)

human scored 2 or 3 points (HS2 or HS3)

Module: a stimulus with three MS1 and one HS3 (6 points)

