

Table 1.5 Texas - Alignment Among the Technical, Content, and Cognitive Demands Categories for the Math Assessments

Test	Format				Context	Graphs			Diagrams			Formulas		Content								Cognitive Demands		
	MC	QC	GR	OE	C	S	RO	P	S	RO	P	M	G	PA	EA	IA	CG	PG	TR	SP	MISC	CU	PK	PS
<u>State Achievement Tests</u>																								
End of Course Algebra	97	0	3	0	38	15	3	0	15	0	0	0	25	5	43	5	25	15	0	8	0	8	92	0
TAAS	100	0	0	0	92	3	0	0	22	0	0	0	12	55	12	0	2	10	0	22	0	10	90	0
TASP	100	0	0	0	38	15	2	0	15	4	0	0	21	17	25	10	8	21	0	10	8	10	81	8
<u>College Admissions Tests</u>																								
ACT	100	0	0	0	22	5	2	0	13	0	0	15	0	17	22	5	15	25	8	3	5	40	53	7
SAT I	58	25	17	0	25	7	0	0	18	0	0	1	8	13	37	2	6	19	0	13	11	32	53	15
SAT II Math Level IC	100	0	0	0	18	8	0	0	26	0	0	12	0	2	30	10	12	28	4	8	6	34	58	8
SAT II Math Level IIC	100	0	0	0	12	12	2	0	2	0	0	10	0	2	14	22	12	14	18	6	12	26	54	20
<u>College Placement Test</u>																								
DTMS	100	0	0	0	20	14	0	0	3	0	0	11	0	17	65	3	6	0	0	9	0	3	97	0

Notes.

Format

MC = multiple-choice items
 QC = quantitative comparison items
 GR = fill-in-the-grid items
 OE = open-ended items

Contextualization

C = contextualized items

Diagrams

S = graph/diagram within item-stem
 RO = graph/diagram within response options
 P = graph/diagram needs to be produced

Formulas

M = formula needs to be memorized
 G = formula is provided

Content Areas

PA = prealgebra
 EA = elementary algebra
 IA = intermediate algebra
 CG = coordinate geometry
 PG = plane geometry
 TR = trigonometry
 SP = statistics and probability
 MISC = miscellaneous topics

Cognitive Demands

CU = conceptual understanding
 PK = procedural knowledge
 PS = problem-solving