

STAR Math Enterprise™ Content Blueprint

Introduction

Each STAR Math Enterprise test contains 34 scored items and a separately specified number of uncalibrated items. The test blueprint specifies operational item counts from each of six domains.¹

The items are administered in such a way as to ensure a balance of content administered at each grade, appropriate to typical curriculum for that grade. Two aspects of the blueprint work together to support this balance of content:

- **Items per domain and grade band.** The exact number of items from each domain is prescribed for each of four grade bands: K–2, 3–5, 6–8, and 9–12.
- **Spiraling of items in blocks.** Items are drawn from all six domains and administered in six blocks.

Domain Prescriptions

Below are tables depicting these two different content specifications across the four grade bands, as follows:

- **Table 1—Items per domain and grade band.** The number of items from each domain varies by grade band. Content balancing aims to reflect the relative proportions of skills from each of the domains. The resulting “top-level” blueprint prescribes the number of items to be administered from each of six domains, according to the student’s grade band.
- **Table 2—Spiraling of item blocks, per domain and grade band.** As stated previously, the blueprint ensures that the 34 items within each test are administered in six blocks. This table specifies the number of items from each domain to be administered within each block to students in different grade bands. For example, for students in grades K–2, the first six items of the test constitute a block in which two Numbers items, two Operations items, and two Measurement items are to be administered. The number of items per block varies by grade band, as does the number of items from each domain. The purpose of this block specification is to ensure that a variety of content is included in the early, middle, and late stages of each test, so that no single domain dominates the content at any point in the test.

¹ STAR Math Enterprise skills are organized into four broad domains: Numbers and Operations; Algebra; Geometry and Measurement; and Data Analysis, Probability, and Statistics. This blueprint focuses on these as six separate domains, as depicted in Table 1.

Table 1—Items per Domain and Grade Band

Domain	Grade Band			
	K–2	3–5	6–8	9–12
Numbers	11	7	2	1
Operations	11	16	18	2
Algebra	1	3	7	18
Geometry	1	3	3	13
Measurement	7	2	2	0
Data Analysis, Statistics & Probability	3	3	2	0
Total	34	34	34	34

Table 2—Spiraling of Items in Blocks, per Domain and Grade Band

Domain	Grade Band			
	K–2	3–5	6–8	9–12
Block 1				
Numbers	2	1	1	1
Operations	2	2	3	1
Algebra	0	1	1	3
Geometry	0	1	1	2
Measurement	2	1	1	0

Data Analysis, Statistics, and Probability	0	1	1	0
Block 2				
Numbers	2	1	0	0
Operations	2	3	3	0
Algebra	0	1	1	3
Geometry	0	0	0	2
Measurement	2	0	0	0
Data Analysis, Statistics, and Probability	0	0	0	0
Block 3				
Numbers	2	1	0	0
Operations	2	2	3	0
Algebra	0	0	1	3
Geometry	0	0	0	2
Measurement	1	0	0	0
Data Analysis, Statistics, and Probability	0	0	0	0
Block 4				
Numbers	2	1	0	0
Operations	2	3	3	0
Algebra	0	0	1	3

Geometry	0	0	0	2
Measurement	1	0	0	0
Data Analysis, Statistics, and Probability	1	0	0	0
Block 5				
Numbers	2	1	0	0
Operations	2	3	3	0
Algebra	1	0	1	3
Geometry	1	1	1	2
Measurement	1	0	0	0
Data Analysis, Statistics , and Probability	1	1	0	0
Block 6				
Numbers	1	2	1	0
Operations	1	3	3	1
Algebra	0	1	2	3
Geometry	0	1	1	3
Measurement	0	1	1	0
Data Analysis, Statistics, and Probability	1	1	1	0
Total	34	34	34	34