

Kindergarten Science
Test Blueprint Summary Table

Reporting Category	Kindergarten Standards of Learning	Number of Items
Assessed with other SOL		
Scientific Investigation, Reasoning, and Logic	*K.1 a-k *K.2 a-b	13
Force, Motion, Energy, and Matter	*K.3 a-b *K.4 a-e *K.5 a-c	11
Life Processes and Living Systems	*K.6 a-b *K.7 a-d	6
Earth/Space Systems and Cycles	*K.8 a-b *K.9 a-c *K.10 a-b *K.11 a-c	10
Excluded from Testing	None	
Number of Operational Items		
Total Number of Items on Test		

*All K SOLs are considered subsumed content for the 3rd grade SOL test.

Grade 1 Science

Test Blueprint Summary Table

Reporting Category	Grade 1 Standards of Learning	Number of Items
Assessed with other SOL		
Scientific Investigation, Reasoning, and Logic	*1.1a-j	12
Force, Motion, Energy, and Matter	*1.2a-c *1.3 a-c	8
Life Processes and Living Systems	*1.4a-c *1.5a-c	8
Earth/Space Systems and Cycles	*1.6a-b *1.7a-c *1.8a-c	12
Excluded from Testing	None	
Number of Operational Items		
Total Number of Items on Test		

*All 1st grade SOLs are considered subsumed content for the 3rd grade SOL test.

Grade 2 Science

Test Blueprint Summary Table

Reporting Category	Grade 2 Standards of Learning	Number of Items
Assessed with other SOL	2.1m	
Scientific Investigation, Reasoning, and Logic	2.1a-l	14
Force, Motion, Energy, and Matter	2.2a-b 2.3a-c	7
Life Processes and Living Systems	2.4a-b 2.5a-d 2.7a 2.8a-d	13
Earth/Space Systems and Cycles	2.6a-c 2.7b	6
Excluded from Testing	None	
Number of Operational Items		40
Total Number of Items on Test		40

Grade 3 Science

Test Blueprint Summary Table

Reporting Category	Grade 3 Standards of Learning	Number of Items
Assessed with other SOL	3.1m	
Scientific Investigation, Reasoning, and Logic	3.1a-l	10
Force, Motion, Energy, and Matter	3.2a-d 3.3a-c	5
Life Processes and Living Systems	3.4a-b 3.5a-c 3.6a-d 3.10a	10
Earth/Space Systems and Cycles	3.7a-d 3.8a-c 3.9a-e 3.10b-d 3.11a-c	15
Excluded from Testing	None	
Number of Operational Items		40
Total Number of Items on Test		40

Grade 4 Science

Test Blueprint Summary Table

Reporting Category	Grade 4 Standards of Learning	Number of Items
Assessed with other SOL	4.1m	
Scientific Investigation, Reasoning, and Logic	4.1a-l	9
Force, Motion, Energy, and Matter	4.2a-d 4.3a-f	9
Life Processes and Living Systems	4.4a-d 4.5a-f 4.9b	11
Earth/Space Systems and Cycles	4.6a-c 4.7a-c 4.8a-e 4.9a, c-d	11
Excluded from Testing	None	
Number of Operational Items		40
Total Number of Items on Test		40

Grade 5 Science

Test Blueprint Summary Table

Reporting Category	Grade 5 Standards of Learning	Number of Items
Assessed with other SOL	5.1k	
Scientific Investigation, Reasoning, and Logic	5.1a-j	11
Force, Motion, Energy, and Matter	5.2a-d 5.3a-e 5.4a-e	13
Life Processes and Living Systems	5.5a-c	5
Earth/Space Systems and Cycles	5.6a-c 5.7a-g	11
Excluded from Testing	None	
Number of Operational Items		40
Total Number of Items on Test		40

Grade 6 Science

Test Blueprint Summary Table

Reporting Category	Grade 6 Standards of Learning	Number of Items
Assessed with Other SOL	6.1j	
Scientific Investigation	6.1a-i	7
Force, Motion, Energy, and Matter	6.2a, e 6.4a-g 6.5a-b 6.6a	10
Life Systems	LS.2a-d LS.3a-b LS.4a-d LS.5a-c LS.12a-f LS.13a	
Ecosystems	6.7a-g	7
Earth and Space Systems	6.2b-d 6.3a-e 6.5c-f 6.6b-f 6.8a-i 6.9a-d	26
Excluded from Testing	None	
Number of Operational Items		50
Total Number of Items on Test		50

**Grade 7 Science
Test Blueprint Summary Table**

Reporting Category	Life Science Standards of Learning	Number of Items
Assessed with Other SOL	LS.1j	
Scientific Investigation	LS.1a-i	8
Force, Motion, Energy, and Matter		
Life Systems	LS.2a-d LS.3a-b LS.4a-d LS.5a-c LS.12a-f LS.13a	21
Ecosystems	LS.6a-d LS.7a-b LS.8a-e LS.9a-c LS.10a-c LS.11a-e	20
Earth and Space Systems	LS.13b-c	1
Excluded from Testing	None	
Number of Operational Items		50
Total Number of Items on Test		50

**Grade 8 Science
Test Blueprint Summary Table**

Reporting Category	Physical Science Standards of Learning	Number of Items
Assessed with Other SOL	PS.1n	
Scientific Investigation	PS.1a-m	8
Force, Motion, Energy, and Matter	PS.2a-f PS.3a-b PS.4a-c PS.5a-c PS.6a-b PS.7a-d PS.8a-d PS.9a-e PS.10a-d PS.11a-d	42
Life Systems		
Ecosystems		
Earth and Space Systems		
Excluded from Testing	None	
Number of Operational Items		50
Total Number of Items on Test		50

Earth Science

Test Blueprint Summary Table

Reporting Category	Earth Science Standards of Learning	Number of Items
Assessed with Other SOL	ES.1f	
Scientific Investigation and the Nature of Science	ES.1a-e ES.2a-d	9
Earth and Space Systems	ES.3a-c ES.8c-d ES.10a, c-d ES.12a-d	14
Earth Materials and Processes	ES.4a ES.5a-c ES.7a-b ES.8a-b	10
Cosmology, Origins, and Time	ES.9a-d ES.11a-c ES.13a-b	7
Earth Resources and Human Interactions	ES. 3d ES.4b ES.6a-d ES.8e-f ES.10b, e ES.11d	11
Excluded from Testing	None	
Number of Operational Items		50
Total Number of Items on Test		50

Biology

Test Blueprint Summary Table

Reporting Category	Biology Standards of Learning	Number of Items
Assessed with Other SOL	BIO.1m	
Scientific Investigation	BIO.1a-l	9
Life at the Molecular and Cellular Level	BIO.2a-d BIO.3a-e BIO.4e BIO.5a-c, e-h, j BIO.6d	21
Life at the Systems and Organisms Level	BIO.4a-c BIO.5d BIO.6a, c, e	7
Interaction of Life Forms	BIO.4f BIO.6b BIO.7a-e BIO.8a-e	13
Excluded from Testing	BIO.4d BIO.5i	
Number of Operational Items		50
Total Number of Items on Test		50

Chemistry

Test Blueprint Summary Table

Reporting Category	Chemistry Standards of Learning	Number of Items
Assessed with Other SOL	CH.1j	
Scientific Investigation	CH.1a-i	10
Atomic Structure and Periodic Relationships	CH. 2a-i CH.6a	14
Chemical Formulas and Reactions	CH.3a-f CH.6b	12
Molar Relationships	CH. 4a-d	6
Phases of Matter and Kinetic Molecular Theory	CH. 5a-g	8
Excluded from Testing	None	
Number of Operational Items		50
Total Number of Items on Test		50