

OKLAHOMA SCHOOL TESTING PROGRAM

TEST BLUEPRINT SCIENCE 2016-2017 GRADE 5

The blueprint describes the content and structure of the operational test and defines the target number of test items by reporting category for the Grade 5 Science assessment.

| REPORTING CATEGORIES ¹ (OKLAHOMA ACADEMIC STANDARDS FOR SCIENCE) | TARGET NUMBER OF MC ITEMS | TARGET PERCENTAGE OF TOTAL ITEMS / SCORE POINTS ² | TARGET NUMBER OF CLUSTERS ³ |
|---|------------------------------|---|---|
| PHYSICAL SCIENCES 5-PS1-1 5-PS1-2 5-PS1-3 5-PS1-4 | 12-15 | 27-33% | 4-5 |
| LIFE SCIENCES 5-LS1-1 5-LS2-1 5-LS2-2 5-PS3-1 ^a | 12-15 | 27-33% | 4-5 |
| EARTH AND SPACE SCIENCES 5-ESS1-1 5-ESS1-2 5-ESS2-1 5-ESS2-2 5-PS2-1 ^a | 15-18 | 33-40% | 5-6 |
| TOTAL OPERATIONAL TEST | 45 | 100% (45 TOTAL SCORE POINTS) | 15 |

(Please note this blueprint does not include items that may be field-tested.)

¹ Reporting category names are taken from the three content domain names in the OAS-Science.

^a The physical science performance expectations 5-PS3-1 and 5-PS2-1 are being reported in Life Sciences and Earth and Space Sciences, respectively. Their placement in these reporting categories reflects the way that these performance expectations would typically be incorporated into units in classroom instruction.

² A minimum of 12 points is required to report results for a reporting category for Grade 5 Science.

³ Performance expectations will be assessed using a cluster-based format: a set of three multiple-choice items linked with a common stimulus. Each cluster will align to a single performance expectation. The Grade 5 Science operational test will contain a total of 15 clusters.



OKLAHOMA SCHOOL TESTING PROGRAM

TEST BLUEPRINT SCIENCE 2016-2017 GRADE 8

The blueprint describes the content and structure of the operational test and defines the target number of test items by reporting category for the Grade 8 Science assessment.

| REPORTING CATEGORIES ¹ (OKLAHOMA ACADEMIC STANDARDS FOR SCIENCE) | TARGET NUMBER OF MC ITEMS | TARGET NUMBER OF TE ITEMS ² | TARGET RANGE OF SCORE POINTS ³ (PERCENTAGE OF TOTAL) | TARGET NUMBER OF CLUSTERS ⁴ |
|--|------------------------------|---|--|---|
| PHYSICAL SCIENCES MS-PS1-5 MS-PS4-1 MS-PS1-6 MS-PS4-2 MS-PS2-1 MS-PS2-2 | 14-17 | 1 | 16-19 (33-40%) | 5-6 |
| LIFE SCIENCES MS-LS1-7 MS-LS4-1 MS-LS4-2 | 8-11 | 1 | 10-13 (21-27%) | 3-4 |
| EARTH AND SPACE SCIENCES MS-ESS1-4 MS-ESS3-1 MS-ESS2-1 MS-ESS3-2 MS-ESS2-2 MS-ESS3-4 MS-ESS2-3 | 17-20 | 1 | 19-22 (40-46%) | 6-7 |
| TOTAL OPERATIONAL TEST | 42 | 3 | 100% (48 TOTAL SCORE POINTS) | 15 |

(Please note this blueprint does not include items that may be field-tested.)

¹ Reporting category names are taken from the three content domain names in the OAS-Science.

² Technology-enhanced items (TE items/TEIs) may be used to more authentically address some aspects of the performance expectations (PEs). Each TEI will have a value of two score points. At this time, it is expected that each reporting category will include one TEI. More TEIs may possibly be introduced in future operational cycles. For a paper accommodation, the TEIs will be replaced by paired MC items (two linked multiple-choice questions), also worth two score points.

³ A minimum of 10 points is required to report results for a reporting category for Grade 8 Science.

⁴ Performance expectations will be assessed using a cluster-based format: a set of three multiple-choice items linked with a common stimulus or a set of two multiple-choice items and a technology-enhanced item linked with a common stimulus. Each cluster will align to a single performance expectation. The Grade 8 Science operational test will contain a total of 15 clusters.



OKLAHOMA SCHOOL TESTING PROGRAM

TEST BLUEPRINT **SCIENCE** 2016-2017 **GRADE 10**

The blueprint describes the content and structure of the operational test and defines the target number of test items by reporting category for the Grade 10 Science assessment.

| REPORTING CATEGORIES ¹ (OKLAHOMA ACADEMIC STANDARDS FOR SCIENCE) | TARGET NUMBER OF MC ITEMS | TARGET NUMBER OF TE ITEMS ² | TARGET RANGE OF SCORE POINTS ³ (PERCENTAGE OF TOTAL) | TARGET NUMBER OF CLUSTERS ⁴ |
|---|------------------------------|---|--|---|
| STRUCTURE AND FUNCTION HS-LS1-1 HS-LS1-5 HS-LS1-2 HS-LS1-6 HS-LS1-3 HS-LS1-7 HS-LS1-4 | 11-14 | 1 | 13-16 (27-33%) | 4-5 |
| ECOSYSTEM DYNAMICS HS-LS2-1 HS-LS2-5 HS-LS2-2 HS-LS2-6 HS-LS2-3 HS-LS2-8 HS-LS2-4 | 11-14 | 1 | 13-16 (27-33%) | 4-5 |
| HEREDITY, VARIATION, & DIVERSITY HS-LS3-1 HS-LS4-1 HS-LS3-2 HS-LS4-2 HS-LS3-3 HS-LS4-3 HS-LS4-4 HS-LS4-5 | 14-17 | 1 | 16-19 (33-40%) | 5-6 |
| TOTAL OPERATIONAL TEST | 42 | 3 | 100% (48 TOTAL SCORE POINTS) | 15 |

(Please note this blueprint does not include items that may be field-tested.)

¹ Reporting category names are abbreviated from the topic names in the OAS-Science.

² Technology-enhanced items (TE items/TEIs) may be used to more authentically address some aspects of the performance expectations (PEs). Each TEI will have a value of two score points. At this time, it is expected that each reporting category will include one TEI. More TEIs may possibly be introduced in future operational cycles. For a paper accommodation, the TEIs will be replaced by paired MC items (two linked multiple-choice questions), also worth two score points.

³ A minimum of 13 points is required to report results for a reporting category for Grade 10 Science.

⁴ Performance expectations will be assessed using a cluster-based format: a set of three multiple-choice items linked with a common stimulus or a set of two multiple-choice items and a technology-enhanced item linked with a common stimulus. Each cluster will align to a single performance expectation. The Grade 10 Science operational test will contain a total of 15 clusters.

