# OKLAHOMA SCHOOL TESTING PROGRAM

## TEST BLUEPRINT MATHEMATICS
## 2016-2017 GRADE 3

This blueprint describes the content and structure of an assessment and defines the ideal number of test items by strand and standard of the Oklahoma Academic Standards (OAS).

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS |
|---|---|---|
| **46%** | **23** | **NUMBER AND OPERATIONS** |
| | 6 | 3.N.1  Number Sense |
| | 11 | 3.N.2  Number Operations (8) |
| | | 3.N.4  Money (3) |
| | 6 | 3.N.3  Fractions |
| **14%** | **7** | **ALGEBRAIC REASONING AND ALGEBRA** |
| | 7 | 3.A.1  Numerical and Geometric Patterns (4) |
| | | 3.A.2  Equations (3) |
| **28%** | **14** | **GEOMETRY AND MEASUREMENT** |
| | 7 | 3.GM.1  Describe and Create Shapes (4) |
| | | 3.GM.3  Time (3) |
| | 7 | 3.GM.2  Measurement |
| **12%** | **6** | **DATA AND PROBABILITY** |
| | 6 | 3.D.1  Data Analysis |
| **100%** | **50** | **TOTAL** |

Please note this blueprint does not include items that may be field-tested.
A minimum of 6 items is required to report a standard.

# OKLAHOMA SCHOOL TESTING PROGRAM

## TEST BLUEPRINT MATHEMATICS
## 2016-2017 GRADE 4

This blueprint describes the content and structure of an assessment and defines the ideal number of test items by strand and standard of the Oklahoma Academic Standards (OAS).

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS |
|---|---|---|
| 44% | 22 | **NUMBER AND OPERATIONS** |
| | 9 | 4.N.1  Number Operations |
| | 13 | 4.N.2  Rational Numbers (10) |
| | | 4.N.3  Money (3) |
| 16% | 8 | **ALGEBRAIC REASONING AND ALGEBRA** |
| | 8 | 4.A.1  Numerical Patterns (4) |
| | | 4.A.2  Equations (4) |
| 28% | 14 | **GEOMETRY AND MEASUREMENT** |
| | 6 | 4.GM.1  Polygons and Polyhedra |
| | 8 | 4.GM.2  Measurement (5) |
| | | 4.GM.3  Time (3) |
| 12% | 6 | **DATA AND PROBABILITY** |
| | 6 | 4.D.1  Data Analysis |
| 100% | 50 | **TOTAL** |

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# OKLAHOMA SCHOOL TESTING PROGRAM

## TEST BLUEPRINT MATHEMATICS
## 2016-2017 GRADE 5

This blueprint describes the content and structure of an assessment and defines the ideal number of test items by strand and standard of the Oklahoma Academic Standards (OAS).

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS |
|---|---|---|
| 46% | 23 | **NUMBER AND OPERATIONS** |
| | 7 | 5.N.1  Division of Multi-digit Numbers |
| | 8 | 5.N.2  Fractions and Decimals |
| | 8 | 5.N.3  Add and Subtract Rational Numbers |
| 18% | 9 | **ALGEBRAIC REASONING AND ALGEBRA** |
| | 9 | 5.A.1  Numerical Patterns and Graphs (4) |
| | | 5.A.2  Equations and Inequalities (5) |
| 24% | 12 | **GEOMETRY AND MEASUREMENT** |
| | | 5.GM.1  Polygons and Polyhedra (4) |
| | 12 | 5.GM.2  Volume and Surface Area (4) |
| | | 5.GM.3  Angles (4) |
| 12% | 6 | **DATA AND PROBABILITY** |
| | 6 | 5.D.1  Data Analysis |
| 100% | 50 | TOTAL |

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# OKLAHOMA SCHOOL TESTING PROGRAM

## TEST BLUEPRINT MATHEMATICS
## 2016-2017 GRADE 6

This blueprint describes the content and structure of an assessment and defines the ideal number of test items by strand and standard of the Oklahoma Academic Standards (OAS).

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS |
|---|---|---|
| 40% | 20 | **NUMBER AND OPERATIONS** |
| | 7 | 6.N.1 Number Sense of Integers and Rational Numbers (3) |
| | | 6.N.2 Addition and Subtraction of Integers(4) |
| | 7 | 6.N.3 Ratios |
| | 6 | 6.N.4 Multiplication and Division of Rational Numbers |
| 22% | 11 | **ALGEBRAIC REASONING AND ALGEBRA** |
| | | 6.A.1 Algebraic Representations (4) |
| | 11 | 6.A.2 Algebraic Expressions (4) |
| | | 6.A.3 Equations and Inequalities (3) |
| 24% | 12 | **GEOMETRY AND MEASUREMENT** |
| | 6 | 6.GM.1 Area of Parallelograms and Triangles (3) |
| | | 6.GM.2 Angle Relationships on Intersecting Lines (3) |
| | 6 | 6.GM.3 Units of Measurement and Unit Conversions (2) |
| | | 6.GM.4 Congruency and Symmetry of Transformations (4) |
| 14% | 7 | **DATA AND PROBABILITY** |
| | 7 | 6.D.1 Data Analysis (4) |
| | | 6.D.2 Probability (3) |
| 100% | 50 | **TOTAL** |

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# OKLAHOMA SCHOOL TESTING PROGRAM

## TEST BLUEPRINT MATHEMATICS
## 2016-2017 GRADE 7

This blueprint describes the content and structure of an assessment and defines the ideal number of test items by strand and standard of the Oklahoma Academic Standards (OAS).

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS |
|---|---|---|
| **20%** | **10** | **NUMBER AND OPERATIONS** |
| | 10 | 7.N.1  Representation and Comparison of Rational Numbers (4) |
| | | 7.N.2  Number Operations and Absolute Value (6) |
| **30%** | **15** | **ALGEBRAIC REASONING AND ALGEBRA** |
| | 9 | 7.A.1  Proportional Relationships (4) |
| | | 7.A.2  Proportions, Rates and Ratios (5) |
| | 6 | 7.A.3  Linear Equations and Inequalities (4) |
| | | 7.A.4  Order of Operations (2) |
| **30%** | **15** | **GEOMETRY AND MEASUREMENT** |
| | 9 | 7.GM.1  Surface Area and Volume of Rectangular Prisms (2) |
| | | 7.GM.2  Trapezoids and Composite Figures (2) |
| | | 7.GM.3  Circles (5) |
| | 6 | 7.GM.4  Transformations |
| **20%** | **10** | **DATA AND PROBABILITY** |
| | 10 | 7.D.1 Data Analysis (6) |
| | | 7.D.2  Probability (4) |
| **100%** | **50** | **TOTAL** |

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# OKLAHOMA SCHOOL TESTING PROGRAM

## TEST BLUEPRINT MATHEMATICS
## 2016-2017 GRADE 8

This blueprint describes the content and structure of an assessment and defines the ideal number of test items by strand and standard of the Oklahoma Academic Standards (OAS).

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS |
|---|---|---|
| **18%** | **9** | **NUMBER AND OPERATIONS** |
| | 9 | PA.N.1  Real Number Operations |
| **46%** | **23** | **ALGEBRAIC REASONING AND ALGEBRA** |
| | 6 | PA.A.1  Linear and Non-Linear Functions |
| | 8 | PA.A.2  Linear Function Representations and Problem Solving |
| | 9 | PA.A.3  Algebraic Expressions (4) |
| | | PA.A.4  Equations and Inequalities (5) |
| **20%** | **10** | **GEOMETRY AND MEASUREMENT** |
| | 10 | PA.GM.1  Pythagorean Theorem (4) |
| | | PA.GM.2  Surface Area and Volume (6) |
| **16%** | **8** | **DATA AND PROBABILITY** |
| | 8 | PA.D.1  Data Analysis and Scatter Plots (4) |
| | | PA.D.2  Probability (4) |
| **100%** | **50** | **TOTAL** |

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# OKLAHOMA SCHOOL TESTING PROGRAM

## TEST BLUEPRINT MATHEMATICS
## 2016-2017 GRADE 10

This blueprint describes the content and structure of an assessment and defines the ideal number of test items by strand and standard of the Oklahoma Academic Standards (OAS).

| IDEAL PERCENTAGE OF ITEMS | IDEAL NUMBER OF ITEMS | STRANDS AND STANDARDS |
|---|---|---|
| 10% | 6 | **NUMBER AND OPERATIONS** |
| | 6 | A1.N.1  Number Operations and Roots |
| 40% | 24 | **ALGEBRAIC REASONING AND ALGEBRA** |
| | 6 | A1.A.1  Linear, Absolute Value and Systems of Equations |
| | 6 | A1.A.2  Linear, Compound and Systems of Inequalities |
| | 6 | A1.A.3  Expressions and Sequences |
| | 6 | A1.A.4  Slope and Linear Equations |
| 30% | 18 | **FUNCTIONS** |
| | 6 | A1.F.1  Functions, Relations and Function Notation |
| | 6 | A1.F.2  Linear and Non-Linear Families of Functions |
| | 6 | A1.F.3  Operations and Evaluation of Functions |
| 10% | 6 | **DATA AND PROBABILITY** |
| | 6 | A1.D.1  Data Analysis (3)<br>A1.D.2  Probability (3) |
| 10% | 6 | **GEOMETRY** |
| | 6 | G.2D.1 Two-Dimensional Shapes |
| 100% | 60 | **TOTAL** |

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