

# OKLAHOMA SCHOOL TESTING PROGRAM TEST BLUEPRINT MATHEMATICS GRADE 3



This blueprint describes the content and structure of an assessment and defines the ideal range of test items by standard of the [Oklahoma Academic Standards \(OAS\)](#).

| IDEAL PERCENTAGE OF ITEMS | STRANDS AND STANDARDS  |
|---------------------------|--|
| <b>44-48%</b>             | <b><u>NUMBER AND OPERATIONS</u></b> <ul style="list-style-type: none"><li>› 3.N.1 Number Sense</li><li>› 3.N.2 Number Operations</li><li>› 3.N.3 Fractions</li><li>› 3.N.4 Money</li></ul> |
| <b>12-18%</b>             | <b><u>ALGEBRAIC REASONING AND ALGEBRA</u></b> <ul style="list-style-type: none"><li>› 3.A.1 Numerical and Geometric Patterns</li><li>› 3.A.2 Equations</li></ul>                           |
| <b>26-30%</b>             | <b><u>GEOMETRY AND MEASUREMENT</u></b> <ul style="list-style-type: none"><li>› 3.GM.1 Describe and Create Shapes</li><li>› 3.GM.3 Time</li><li>› 3.GM.2 Measurement</li></ul>              |
| <b>12-18%</b>             | <b><u>DATA AND PROBABILITY</u></b> <ul style="list-style-type: none"><li>› 3.D.1 Data Analysis</li></ul>   |
| <b>100%</b>               | <b>TOTAL: 50 ITEMS</b>   |

Standards will be assessed using a combination of multiple choice items; some are linked with a common stimulus and some are technology-enhanced items.

Reporting category names are taken from the Strands and Standards named in the OAS-Mathematics

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

# OKLAHOMA SCHOOL TESTING PROGRAM TEST BLUEPRINT MATHEMATICS GRADE 4



This blueprint describes the content and structure of an assessment and defines the ideal range of test items by standard of the [Oklahoma Academic Standards \(OAS\)](#).

| IDEAL PERCENTAGE OF ITEMS | STRANDS AND STANDARDS   |
|---------------------------|---|
| <b>42-46%</b>             | <b><u>NUMBER AND OPERATIONS</u></b> <ul style="list-style-type: none"><li>› 4.N.1 Number Operations</li><li>› 4.N.2 Rational Numbers</li><li>› 4.N.3 Money</li></ul>      |
| <b>14-18%</b>             | <b><u>ALGEBRAIC REASONING AND ALGEBRA</u></b> <ul style="list-style-type: none"><li>› 4.A.1 Numerical Patterns</li><li>› 4.A.2 Equations</li></ul>                        |
| <b>26-30%</b>             | <b><u>GEOMETRY AND MEASUREMENT</u></b> <ul style="list-style-type: none"><li>› 4.GM.1 Polygons and Polyhedra</li><li>› 4.GM.2 Measurement</li><li>› 4.GM.3 Time</li></ul> |
| <b>12-18%</b>             | <b><u>DATA AND PROBABILITY</u></b> <ul style="list-style-type: none"><li>› 4.D.1 Data Analysis</li></ul>  |
| <b>100%</b>               | <b>TOTAL: 50 ITEMS</b>  |

Standards will be assessed using a combination of multiple choice items; some are linked with a common stimulus and some are technology-enhanced items.

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# OKLAHOMA SCHOOL TESTING PROGRAM TEST BLUEPRINT MATHEMATICS GRADE 5



This blueprint describes the content and structure of an assessment and defines the ideal range of test items by standard of the [Oklahoma Academic Standards \(OAS\)](#).

| IDEAL PERCENTAGE OF ITEMS | STRANDS AND STANDARDS  |
|---------------------------|--|
| <b>44-48%</b>             | <b><u>NUMBER AND OPERATIONS</u></b> <ul style="list-style-type: none"><li>› 5.N.1 Division of Multi-digit Numbers</li><li>› 5.N.2 Fractions and Decimals</li><li>› 5.N.3 Add and Subtract Rational Numbers</li></ul> |
| <b>16-20%</b>             | <b><u>ALGEBRAIC REASONING AND ALGEBRA</u></b> <ul style="list-style-type: none"><li>› 5.A.1 Numerical Patterns and Graphs</li><li>› 5.A.2 Equations and Inequalities</li></ul>                                       |
| <b>22-26%</b>             | <b><u>GEOMETRY AND MEASUREMENT</u></b> <ul style="list-style-type: none"><li>› 5.GM.1 Polygons and Polyhedra</li><li>› 5.GM.2 Volume and Surface Area</li><li>› 5.GM.3 Angles</li></ul>                              |
| <b>12-18%</b>             | <b><u>DATA AND PROBABILITY</u></b> <ul style="list-style-type: none"><li>› 5.D.1 Data Analysis</li></ul>   |
| <b>100%</b>               | <b>TOTAL: 50 ITEMS</b>   |

Standards will be assessed using a combination of multiple choice items; some are linked with a common stimulus and some are technology-enhanced items.

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# OKLAHOMA SCHOOL TESTING PROGRAM TEST BLUEPRINT MATHEMATICS GRADE 6



This blueprint describes the content and structure of an assessment and defines the ideal range of test items by standard of the [Oklahoma Academic Standards \(OAS\)](#).

IDEAL  
PERCENTAGE  
OF ITEMS

STRANDS AND  
STANDARDS

**38-42%**

## **NUMBER AND OPERATIONS**

- › 6.N.1 Number Sense of Integers and Rational Numbers
- › 6.N.2 Addition and Subtraction of Integers
- › 6.N.3 Ratios
- › 6.N.4 Multiplication and Division of Rational Numbers

**20-24%**

## **ALGEBRAIC REASONING AND ALGEBRA**

- › 6.A.1 Algebraic Representations
- › 6.A.2 Algebraic Expressions
- › 6.A.3 Equations and Inequalities

**22-26%**

## **GEOMETRY AND MEASUREMENT**

- › 6.GM.1 Area of Parallelograms and Triangles
- › 6.GM.2 Angle Relationships on Intersecting Lines
- › 6.GM.3 Units of Measurement and Unit Conversions
- › 6.GM.4 Congruency and Symmetry of Transformations

**12-16%**

## **DATA AND PROBABILITY**

- › 6.D.1 Data Analysis
- › 6.D.2 Probability

**100%**

**TOTAL: 50 ITEMS**

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# OKLAHOMA SCHOOL TESTING PROGRAM TEST BLUEPRINT MATHEMATICS GRADE 7



This blueprint describes the content and structure of an assessment and defines the ideal range of test items by standard of the [Oklahoma Academic Standards \(OAS\)](#).

IDEAL  
PERCENTAGE  
OF ITEMS

STRANDS AND  
STANDARDS

**18-22%**

## **NUMBER AND OPERATIONS**

- › 7.N.1 Representation and Comparison of Rational Numbers
- › 7.N.2 Number Operations and Absolute Value

**28-32%**

## **ALGEBRAIC REASONING AND ALGEBRA**

- › 7.A.1 Proportional Relationships
- › 7.A.2 Proportions, Rates and Ratios
- › 7.A.3 Linear Equations and Inequalities
- › 7.A.4 Order of Operations

**28-32%**

## **GEOMETRY AND MEASUREMENT**

- › 7.GM.1 Surface Area and Volume of Rectangular Prisms
- › 7.GM.2 Trapezoids and Composite Figures
- › 7.GM.3 Circles
- › 7.GM.4 Transformations

**18-22%**

## **DATA AND PROBABILITY**

- › 7.D.1 Data Analysis
- › 7.D.2 Probability

**100%**

**TOTAL: 50 ITEMS**

Standards will be assessed using a combination of multiple choice items; some are linked with a common stimulus and some are technology-enhanced items.

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# OKLAHOMA SCHOOL TESTING PROGRAM TEST BLUEPRINT MATHEMATICS GRADE 8



This blueprint describes the content and structure of an assessment and defines the ideal range of test items by standard of the [Oklahoma Academic Standards \(OAS\)](#).

| IDEAL PERCENTAGE OF ITEMS | STRANDS AND STANDARDS  |
|---------------------------|--|
| <b>16-20%</b>             | <b><u>NUMBER AND OPERATIONS</u></b> <ul style="list-style-type: none"><li>› PA.N.1 Real Number Operations</li></ul>  |
| <b>44-48%</b>             | <b><u>ALGEBRAIC REASONING AND ALGEBRA</u></b> <ul style="list-style-type: none"><li>› PA.A.1 Linear and Non-Linear Functions</li><li>› PA.A.2 Linear Function Representations and Problem Solving</li><li>› PA.A.3 Algebraic Expressions</li><li>› PA.A.4 Equations and Inequalities</li></ul> |
| <b>18-22%</b>             | <b><u>GEOMETRY AND MEASUREMENT</u></b> <ul style="list-style-type: none"><li>› PA.GM.1 Pythagorean Theorem</li><li>› PA.GM.2 Surface Area and Volume</li></ul>   |
| <b>14-18%</b>             | <b><u>DATA AND PROBABILITY</u></b> <ul style="list-style-type: none"><li>› PA.D.1 Data Analysis and Scatter Plots</li><li>› PA.D.2 Probability</li></ul>   |
| <b>100%</b>               | <b>TOTAL: 50 ITEMS</b>   |

Standards will be assessed using a combination of multiple choice items; some are linked with a common stimulus and some are technology-enhanced items.

Reporting category names are taken from the Strands and Standards named in the OAS-Mathematics

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