

Mathematics

Blueprint for Grade 3 Mathematics

| Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|---|--|--|-------------|-------------------|
| NBT | Number Sense and Operations in Base Ten | Use place value understanding and properties of operations to perform multi-digit arithmetic | 8-10 | 17-21% |
| NF | Number Sense and Operations in Fractions | Develop understanding of fractions as numbers | 8-10 | 17-21% |
| RA | Relationships and Algebraic Thinking | Represent and solve problems involving multiplication and division | 8-18 | 17-36% |
| | | Understand properties of multiplication and the relationship between multiplication and division | | |
| | | Multiply and divide within 100 | | |
| | | Use the four operations to solve word problems | | |
| | | Identify and explain arithmetic patterns | | |
| GM+DS | Geometry and Measurement | Reason with shapes and their attributes | 7-16 | 14-32% |
| | | Solve problems involving the measurement of time, liquid volumes and weights of objects | | |
| | | Understand concepts of area | | |
| | | Understand concepts of perimeter | | |
| | Data and Statistics | Represent and analyze data | | |
| Performance Event: Each year the performance event (PE) may align to any specific reporting category. The grade 3 PE contains all item types.* | | | 6 | 13% |
| Total | | | 48 | 100% |

*See Online Training Tools (OTT) for example items.

Mathematics

Blueprint for Grade 4 Mathematics

| Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|--|--|---|-------------|-------------------|
| NBT | Number Sense and Operations in Base Ten | Use place value understanding and properties of operations to perform multi-digit arithmetic with numbers up to one million | 9-11 | 19-23% |
| NF | Number Sense and Operations in Fractions | Extend understanding of fraction equivalence and ordering (Limit denominators to 2, 3, 4, 5, 6, 8, 10, 12 and 100) | 8-14 | 16-29% |
| | | Extend understanding of operations on whole numbers to fraction operations | | |
| | | Understand decimal notation for fractions, and compare decimal fractions (Denominators of 10 or 100) | | |
| RA | Relationships and Algebraic Thinking | Use the four operations with whole numbers to solve problems | 5-11 | 10-22% |
| | | Work with factors and multiples | | |
| | | Generate and analyze patterns | | |
| GM+DS | Geometry and Measurement | Classify 2-dimensional shapes by properties of their lines and angles | 7-13 | 14-27% |
| | | Understand the concepts of angle and measure angles | | |
| | | Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit | | |
| | Data and Statistics | Represent and analyze data | 3-5 | 6-10% |
| Performance Event: Each year the performance event (PE) may align to any specific reporting category. The grade 4 PE contains all item types.* | | | 6 | 13% |
| Total | | | 48 | 100% |

*See Online Training Tools (OTT) for example items.

Mathematics

Blueprint for Grade 5 Mathematics

| Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|---|--|---|-------------|-------------------|
| NBT | Number Sense and Operations in Base Ten | Use place value system understanding to perform operations with multi-digit whole numbers to billions and decimals to thousandths | 7-9 | 15-19% |
| NF | Number Sense and Operations in Fractions | Understand the relationship between fractions and decimals (denominators that are factors of 100) | 11-15 | 23-31% |
| | | Perform operations and solve problems with fractions and decimals | | |
| RA | Relationships and Algebraic Thinking | Represent and analyze patterns and relationships | 5-11 | 10-22% |
| | | Write and interpret numerical expressions | | |
| | | Use the four operations to represent and solve problems | | |
| GM+DS | Geometry and Measurement | Classify two- and three-dimensional geometric shapes | 6-14 | 12-28% |
| | | Understand and compute volume | | |
| | | Graph points on the Cartesian coordinate plane within the first quadrant to solve problems | | |
| | | Solve problems involving measurement and conversions within a measurement system | | |
| | Data and Statistics | Represent and analyze data | 2-4 | 4-8% |
| Performance Event: Each year the performance event (PE) may align to any specific reporting category. The grade 5 PE contains all item types.* | | | 6 | 13% |
| Total | | | 48 | 100% |

*See Online Training Tools (OTT) for example items.

Mathematics

Blueprint for Grade 6 Mathematics

| Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|---|---|--|-------------|-------------------|
| RP | Ratios and Proportional Relationship | Understand and use ratios to solve problems | 7-9 | 13-17% |
| NS | Number Sense and Operations | Apply and extend previous understandings of multiplication and division to divide fractions by fractions | 9-14 | 17-26% |
| | | Compute with non-negative multi-digit numbers, and find common factors and multiples | | |
| | | Apply and extend previous understandings of numbers to the system of rational numbers | | |
| EEI | Expressions, Equations and Inequalities | Apply and extend previous understandings of arithmetic to algebraic expressions | 12-18 | 22-34% |
| | | Reason about and solve one-variable equations and inequalities | | |
| | | Represent and analyze quantitative relationships between dependent and independent variables | | |
| GM & DSP | Geometry and Measurement | Solve problems involving area, surface area and volume | 10-15 | 19-28% |
| | Data Analysis, Statistics and Probability | Develop understanding of statistical variability | | |
| | | Summarize and describe distributions | | |
| Performance Event: Each year the performance event (PE) may align to any specific reporting category. The grade 6 PE contains all item types.* | | | 8 | 15% |
| Total | | | 54 | 100% |

*See Online Training Tools (OTT) for example items.

Mathematics

Blueprint for Grade 7 Mathematics

| Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|---|--|---|-------------|-------------------|
| RP | Ratios and Proportional Relationship | Analyze proportional relationships and use them to solve problems | 10-12 | 19-22% |
| NS | Number Sense and Operations | Apply and extend previous understandings of operations to add, subtract, multiply and divide rational numbers | 8-10 | 15-19% |
| EEI | Expressions, Equations and Inequalities | Use properties of operations to generate equivalent expressions | 11-15 | 20-28% |
| | | Solve problems using numerical and algebraic expressions and equations | | |
| GM & DSP | Geometry and Measurement | Draw and describe geometrical figures and describe the relationships between them | 4-8 | 8-14% |
| | | Apply and extend previous understanding of angle measure, area and volume | | |
| | Data Analysis, Statistics and Probability | Use random sampling to draw inferences about a population | 5-10 | 10-19% |
| Draw informal comparative inferences about two populations | Develop, use and evaluate probability models | | | |
| Performance Event: Each year the performance event (PE) may align to any specific reporting category. The grade 7 PE contains all item types.* | | | 8 | 15% |
| Total | | | 54 | 100% |

*See Online Training Tools (OTT) for example items.

Mathematics

Blueprint for Grade 8 Mathematics

| Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|---|---|---|-------------|-------------------|
| NS + EEI | Number Sense and Operations | Know that there are numbers that are not rational, and approximate them by rational numbers | 2-4 | 4-7% |
| | Expressions, Equations and Inequalities | Work with radicals and integer exponents | 15-21 | 28-39% |
| | | Understand the connections between proportional relationships, lines and linear equations | | |
| | | Analyze and solve linear equations and inequalities and pairs of simultaneous linear equations | | |
| GM + DSP | Geometry and Measurement | Understand congruence and similarity using physical models, transparencies or geometry software | 9-15 | 17-28% |
| | | Understand and apply the Pythagorean Theorem | | |
| | | Solve problems involving volume of cones, pyramids and spheres | | |
| | Data Analysis, Statistics and Probability | Investigate patterns of association in bivariate data | 3-5 | 6-9% |
| F | Functions | Define, evaluate and compare functions | 7-11 | 13-20% |
| | | Use functions to model relationships between quantities | | |
| Performance Event: Each year the performance event (PE) may align to any specific reporting category. The grade 8 PE contains all item types.* | | | 8 | 15% |
| Total | | | 54 | 100% |

*See Online Training Tools (OTT) for example items.

English Language Arts

Blueprint for Grade 3 English Language Arts

| Reporting Category | Strand/ Domain | Theme/Big Idea | Point Range | Range of Emphasis | |
|------------------------|------------------------|---|--|-------------------|--------|
| Reading | Reading | Literacy | Develop and apply skills to the reading process | 12-14 | 21-25% |
| | | | Develop and apply skills and strategies to comprehend, analyze and evaluate fiction, poetry and drama from a variety of cultures and times | | |
| | | | Comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning | | |
| | | Informational | Develop and apply skills to the reading process | | |
| | | | Develop and apply skills and strategies to comprehend, analyze and evaluate nonfiction (e.g., narrative, information/explanatory, opinion, persuasive, argumentative) from a variety of cultures and times | | |
| | | | Comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning | | |
| Research | Writing | Gather, analyze, evaluate and use information from a variety of sources | 7-9 | 13-16% | |
| Writing | Writing | Apply a writing process to develop a text for audience and purpose | 7-9 | 13-16% | |
| | Language | Communicate using conventions of English language | 5-7 | 9-13% | |
| Speaking\ Listening | Speaking\ Listening | Listen for a purpose | 7-9 | 13-16% | |
| | | Listen for entertainment | | | |
| | | Speak effectively in collaborative discussions | | | |
| | | Speak effectively when presenting | | | |
| Total | | | 56 | 100% | |

English Language Arts

Blueprint for Grade 4 English Language Arts

| Reporting Category | Strand/ Domain | Theme/Big Idea | Point Range | Range of Emphasis | |
|------------------------|------------------------|---|--|-------------------|--------|
| Reading | Reading | Literacy | Develop and apply skills to the reading process | 12-14 | 21-25% |
| | | | Develop and apply skills and strategies to comprehend, analyze and evaluate fiction, poetry and drama from a variety of cultures and times | | |
| | | | Comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning | | |
| | | Informational | Develop and apply skills to the reading process | 12-14 | 21-25% |
| | | | Develop and apply skills and strategies to comprehend, analyze and evaluate nonfiction (e.g., narrative, information/explanatory, opinion, persuasive, argumentative) from a variety of cultures and times | | |
| | | | Comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning | | |
| Research | Writing | Gather, analyze, evaluate and use information from a variety of sources | 7-9 | 13-16% | |
| Writing | Writing | Apply a writing process to develop a text for audience and purpose | 2 | 4% | |
| | | Compose well-developed writing texts for audience and purpose | 8 | 14% | |
| | Language | Communicate using conventions of English language | 4 | 7% | |
| Speaking\ Listening | Speaking\ Listening | Listen for a purpose | 7-9 | 13-16% | |
| | | Listen for entertainment | | | |
| | | Speak effectively in collaborative discussions | | | |
| | | Speak effectively when presenting | | | |
| Total | | | 56 | 100% | |

English Language Arts

Blueprint for Grade 5 English Language Arts

| Reporting Category | Strand/ Domain | Theme/Big Idea | Point Range | Range of Emphasis | |
|------------------------|------------------------|---|--|-------------------|--------|
| Reading | Reading | Literacy | Develop and apply skills to the reading process | 12-14 | 21-25% |
| | | | Develop and apply skills and strategies to comprehend, analyze and evaluate fiction, poetry and drama from a variety of cultures and times | | |
| | | | Comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning | | |
| | | Informational | Develop and apply skills to the reading process | 12-14 | 21-25% |
| | | | Develop and apply skills and strategies to comprehend, analyze and evaluate nonfiction (e.g., narrative, information/explanatory, opinion, persuasive, argumentative) from a variety of cultures and times | | |
| | | | Comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning | | |
| Research | Writing | Gather, analyze, evaluate and use information from a variety of sources | 7-9 | 13-16% | |
| Writing | Writing | Apply a writing process to develop a text for audience and purpose | 7-9 | 13-16% | |
| | Language | Communicate using conventions of English language | 5-7 | 9-13% | |
| Speaking\ Listening | Speaking\ Listening | Listen for a purpose | 7-9 | 13-16% | |
| | | Listen for entertainment | | | |
| | | Speak effectively in collaborative discussions | | | |
| | | Speak effectively when presenting | | | |
| Total | | | 56 | 100% | |

English Language Arts

Blueprint for Grade 6 English Language Arts

| Reporting Category | Strand/ Domain | Theme/Big Idea | | Point Range | Range of Emphasis |
|------------------------|------------------------|--------------------------------------|--|-------------|-------------------|
| Reading | Reading | Literacy | Comprehend and Interpret Texts (Approaching Texts as a Reader) | 13-15 | 23-27% |
| | | | Analyze Craft and Structure (Approaching Texts as a Writer) | | |
| | | | Synthesize Ideas from Multiple Texts (Approaching Texts as a Researcher) | | |
| | | Informational | Comprehend and Interpret Texts (Approaching Texts as a Reader) | 13-15 | 23-27% |
| | | | Analyze Craft and Structure (Approaching Texts as a Writer) | | |
| | | | Synthesize Ideas from Multiple Texts (Approaching Texts as a Researcher) | | |
| Research | Writing | Approaching the Task as a Researcher | | 7-9 | 13-16% |
| Writing | Writing | Approaching the Task as a Reader | | 8 | 15% |
| Speaking\ Listening | Speaking\ Listening | Collaborating | | 7-9 | 13-16% |
| | | Presenting | | | |
| Total | | | | 56 | 100% |

English Language Arts

Blueprint for Grade 7 English Language Arts

| Reporting Category | Strand/ Domain | Theme/Big Idea | | Point Range | Range of Emphasis |
|------------------------|------------------------|--------------------------------------|--|-------------|-------------------|
| Reading | Reading | Literacy | Comprehend and Interpret Texts (Approaching Texts as a Reader) | 13-15 | 25-29% |
| | | | Analyze Craft and Structure (Approaching Texts as a Writer) | | |
| | | | Synthesize Ideas from Multiple Texts (Approaching Texts as a Researcher) | | |
| | | Informational | Comprehend and Interpret Texts (Approaching Texts as a Reader) | 13-15 | 25-29% |
| | | | Analyze Craft and Structure (Approaching Texts as a Writer) | | |
| | | | Synthesize Ideas from Multiple Texts (Approaching Texts as a Researcher) | | |
| Research | Writing | Approaching the Task as a Researcher | | 7-9 | 13-17% |
| Writing | Writing | Approaching the Task as a Reader | | 7-9 | 13-17% |
| Speaking\ Listening | Speaking\ Listening | Collaborating | | 7-9 | 13-17% |
| | | Presenting | | | |
| Total | | | | 52 | 100% |

English Language Arts

Blueprint for Grade 8 English Language Arts

| Reporting Category | Strand/ Domain | Theme/Big Idea | | Point Range | Range of Emphasis |
|------------------------|------------------------|--------------------------------------|--|-------------|-------------------|
| Reading | Reading | Literacy | Comprehend and Interpret Texts (Approaching Texts as a Reader) | 13-15 | 23-27% |
| | | | Analyze Craft and Structure (Approaching Texts as a Writer) | | |
| | | | Synthesize Ideas from Multiple Texts (Approaching Texts as a Researcher) | | |
| | | Informational | Comprehend and Interpret Texts (Approaching Texts as a Reader) | 13-15 | 23-27% |
| | | | Analyze Craft and Structure (Approaching Texts as a Writer) | | |
| | | | Synthesize Ideas from Multiple Texts (Approaching Texts as a Researcher) | | |
| Research | Writing | Approaching the Task as a Researcher | | 7-9 | 13-16% |
| Writing | Writing | Approaching the Task as a Writer | | 8 | 14% |
| | | Approaching the Task as a Reader | | 4 | 7% |
| Speaking\ Listening | Speaking\ Listening | Collaborating | | 7-9 | 13-16% |
| | | Presenting | | | |
| Total | | | | 56 | 100% |

Science

Blueprint for Grade 5 Science

| Recommended Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|--------------------------------|--------------------------|---|-------------|-------------------|
| PS | Physical Science | Matter and Its Interactions | 17-26 | 33-40% |
| | | Motion and Stability: Forces and Interactions | | |
| | | Energy | | |
| | | Waves and Their Applications in Technologies for Information Transfer | | |
| LS | Life Science | From Molecules to Organisms: Structure and Processes | 15-22 | 30-33% |
| | | Ecosystems: Interactions, Energy, and Dynamics | | |
| | | Heredity: Inheritance and Variation of Traits | | |
| ESS | Earth and Space Sciences | Earth's Place in the Universe | 15-22 | 30-33% |
| | | Earth's Systems | | |
| | | Earth and Human Activity | | |
| Total | | | 60 | 100% |

Blueprint for Grade 8 Science

| Recommended Reporting Category | Domain | Cluster | Point Range | Range Of Emphasis |
|--------------------------------|--------------------------|---|-------------|-------------------|
| PS | Physical Science | Matter and Its Interactions | 15-23 | 30-35% |
| | | Motion and Stability: Forces and Interactions | | |
| | | Energy | | |
| | | Waves and Their Applications in Technologies for Information Transfer | | |
| LS | Life Science | From Molecules to Organisms: Structure and Processes | 15-23 | 30-35% |
| | | Ecosystems: Interactions, Energy, and Dynamics | | |
| | | Biological Evolution: Unit and Diversity | | |
| ESS | Earth and Space Sciences | Earth's Place in the Universe | 15-23 | 30-35% |
| | | Earth's Systems | | |
| | | Earth and Human Activity | | |
| Total | | | 60 | 100% |