

# 5<sup>th</sup>/6<sup>th</sup> Grade Information for Parents

This document identifies each report card standard, with noted extensions for students receiving highly capable services. The left-hand column indicates the grade level standard, and the right-hand column notes the intended extension. The advanced activities and assignments in the highly capable classroom stretch students beyond grade level standards. Students are expected to master skills at a faster pace, to cover topics in greater depth and complexity, and to demonstrate a sophisticated level of understanding. The scores on the report card reflect the student's performance in this rigorous setting.

## Math

### Skills:

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

5 <sup>th</sup> Grade Standard	Highly Capable 5 <sup>th</sup> Grade Extensions
<b>Operations and Algebraic Thinking</b> - Writes and interprets numerical expressions; Analyzes patterns and relationships	<ul style="list-style-type: none"> <li>• Applies properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients</li> <li>• Solves real-life and mathematical problems using numerical and algebraic expressions and equations</li> </ul>
<b>Numbers and Operations in Base Ten</b> - Understands the place value system; Reads, writes, and compares decimals to the thousandths; Rounds decimals; Adds, subtracts, multiplies, and divides multi-digit whole numbers and decimals to the hundredths.	<ul style="list-style-type: none"> <li>• Applies and extends previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers</li> <li>• Applies operations with rational numbers to expressions and equations</li> <li>• Uses properties of operations to generate equivalent expressions</li> <li>• Uses equations and inequalities to solve geometry problems</li> </ul>
<b>Fractions</b> - Adds and subtracts fractions accurately; Multiplies and divides fractions accurately	
<b>Measurement and Data</b> - Converts like measurement units within a given measurement system; Represents and interprets data presented in line plots; Understands concepts of volume	Students should have mastered Measurement and Data skills prior to 5 <sup>th</sup> grade QUEST. While the students are expected to apply these skills, there is no grade given for this standard. **Students should be able to convert between units in the context of solving real-world problems.
<b>Geometry</b> - Graphs points on a coordinate plane to solve real-world problems; Classifies two-dimensional figures based on their properties	<ul style="list-style-type: none"> <li>• Applies properties of angles to find unknown angles, classify triangles based on properties</li> <li>• Uses tools such as a ruler, compass, and protractor to construct geometric shapes provided given conditions</li> <li>• Applies formulas to determine area, surface area, and volume of three-dimensional shapes</li> </ul>
6 <sup>th</sup> Grade Standard	Highly Capable 6 <sup>th</sup> Grade Extensions
<b>Ratios and Proportional Relationships</b> - Understands ratio concepts and uses unit rates to solve problems	<ul style="list-style-type: none"> <li>• Analyzes proportional relationships and use them to solve real-world and mathematical problems</li> </ul>
<b>The Number System</b> - Extends understanding of learning of multiplication and division with fractions; Computes fluently multi-digit numbers, finds common factors, and multiples; Extends understanding of positive and negative numbers	<ul style="list-style-type: none"> <li>• Applies and extends previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers</li> <li>• Applies operations with rational numbers to expressions and equations</li> <li>• Uses properties of operations to generate equivalent expressions</li> <li>• Uses equations and inequalities to solve geometry problems</li> </ul>
<b>Expressions and Equations</b> - Extends understanding of algebraic equations; Solves one-variable equations and inequalities; Analyzes relationships between dependent and independent variables	<ul style="list-style-type: none"> <li>• Applies properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients</li> <li>• Solves real-life and mathematical problems using numerical and algebraic expressions and equations</li> </ul>
<b>Geometry</b> - Solves problems involving area, surface area, and volume	<ul style="list-style-type: none"> <li>• Applies properties of angles to find unknown angles, classify triangles based on properties</li> <li>• Uses tools such as a ruler, compass, and protractor to construct geometric shapes provided given conditions</li> <li>• Applies formulas to determine area, surface area, and volume of three-dimensional shapes</li> </ul>
<b>Statistics and Probability</b> - Develops understanding of statistical variability; Summarizes and describes distributions	<ul style="list-style-type: none"> <li>• Uses random sampling to draw inferences about a population</li> <li>• Draws informal comparative inferences about two populations</li> <li>• Investigates chance processes and develops, uses, and evaluates probability</li> </ul>

# ELA: Reading

## Skills:

- Reads and comprehends complex literary and informational texts independently and proficiently
- Reads and comprehends literary and informational texts independently and proficiently at least one year above grade level
- Fluently reads literary and informational texts at least one year above grade level

5 <sup>th</sup> /6 <sup>th</sup> Grade Standard	Highly Capable 5 <sup>th</sup> /6 <sup>th</sup> Grade Extensions
<p><b>Key Ideas and Details</b> 5<sup>th</sup> grade: Determines the main idea and/or purpose of a text, recounts the key details, and explains how they support the purpose of the main idea with textual evidence</p> <p>6<sup>th</sup> Grade: Summarizes text, cites evidence to support identification of main idea, key details, and inferences.</p>	<ul style="list-style-type: none"> <li>• Cites textual evidence that most strongly supports analysis of what the text says explicitly, as well as inferences that can be drawn from the text</li> <li>• Determines, explains, and defends a suitable theme in literary text</li> <li>• Determines, explains, and defends relevant central ideas in informational and argumentative texts</li> <li>• Analyzes how character development, plot structure, dialogue, and events propel the action of a literary text</li> <li>• Analyzes interactions, connections, and distinctions amongst individuals, ideas, or events in informational and argumentative texts</li> </ul>
<p><b>Craft and Structure</b> 5<sup>th</sup> Grade: Determines the meaning of words and phrases as they are used in context</p> <p>6<sup>th</sup> Grade: Determines the meaning of words and phrases; analyzes how word choice affects meaning and tone; Determines the author's point of view, author's purpose, and story elements including plot, characters, theme, and setting.</p>	<ul style="list-style-type: none"> <li>• Determines the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings and analyzes the impact on meaning and tone</li> <li>• Applies knowledge of Latin and Greek affixes and roots to deepen understanding of texts from multiple disciplines; Applies Latin and Greek affixes and roots to refine decoding skills for new words</li> <li>• Analyzes how the overall structure of a text, as well as specific sections, contributes to the development of its theme or key ideas</li> <li>• Analyzes how differences in the point-of-view of the characters and/or audience create literary effects</li> <li>• Determines the author's point-of-view or purpose and analyzes how the author distinguishes his or her position from that of others and/or how he or she responds to conflicting evidence or viewpoints</li> </ul>
<p><b>Integration of Knowledge and Ideas</b> 5<sup>th</sup> Grade: Integrates information from several texts on the same topic to write or speak about the subject knowledgeably</p> <p>6<sup>th</sup> Grade: Evaluates multiple sides of an issue, determine fact vs. opinion, analyzes validity of text, and compares/contrasts information from multiple texts/media</p>	<ul style="list-style-type: none"> <li>• Integrates information presented in different media or formats, and evaluates the advantages and disadvantages of each</li> <li>• Delineates and evaluates the argument and specific claims in a text, and assesses whether the reasoning is sound, and the evidence is relevant and enough to support the claims</li> <li>• Analyzes how two or more authors writing about the same topic shape their presentations of key information by emphasizing different evidence or advancing different interpretation of facts</li> <li>• Compares and contrasts a fictional portrayal of a time, place or character and a historical account of the same period as a means of how authors of fiction use or alter history</li> </ul>

# Science

5 <sup>th</sup> /6 <sup>th</sup> Grade Standard	Highly Capable 5 <sup>th</sup> /6 <sup>th</sup> Grade Extensions
<p><b>Science and Engineering Practices</b> 5<sup>th</sup>/6<sup>th</sup> Grade: Understands and efficiently uses the scientific processes; Develops and uses models; Constructs explanations and designs solutions; Engages in argument from evidence</p>	<ul style="list-style-type: none"> <li>• Acquires significant content knowledge, including work from experts in the field and data from multiple sources</li> <li>• Applies scientific reasoning (purpose, questions, information, inferences, concepts, assumptions, implications, and points of view) to deepen understanding of natural world</li> <li>• Designs, performs, and reports on the results of experiments related to a given problem</li> <li>• Analyzes data and makes inferences to draw conclusions</li> <li>• Demonstrates precision, objectivity, skepticism, persistence, and reflective analysis</li> <li>• Critically reviews outcomes of investigations</li> <li>• Transfers knowledge to make predictions about similar problems</li> <li>• Develops analogies and metaphors to describe a natural object or phenomenon</li> </ul>
<p><b>Life Science</b> 5<sup>th</sup> Grade: Describes that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun; Describes the movement of matter among plants, animals, decomposers, and the environment</p> <p>6<sup>th</sup> Grade: Analyzes resource availability and patterns of interactions; Explains role of photosynthesis and energy flow in living/nonliving parts; Understands how parts of ecosystem affects populations; Designs solutions to maintain biodiversity</p>	
<p><b>Earth Science</b> 5<sup>th</sup> Grade: Demonstrates understanding of Earth's place in the universe (stars, solar system); Demonstrates understanding of Earth's systems (land, water, air) and human impact on it</p> <p>6<sup>th</sup> Grade: Uses models to describe lunar phases, eclipses, day/night, seasons; Describes role of gravity; Understands gravitational interactions are attractive and depend on mass; Determines scale properties of objects in solar system</p>	
<p><b>Physical Science</b> 5<sup>th</sup> Grade: Demonstrates understanding of the structure and properties of matter; Demonstrates understanding of forces and interactions (gravitational force)</p>	

# Social Studies

5 <sup>th</sup> /6 <sup>th</sup> Grade Standard	Highly Capable 5 <sup>th</sup> /6 <sup>th</sup> Grade Extensions
<p><b>United States History</b> 5<sup>th</sup> Grade: Demonstrates knowledge and skills within unit guidelines: US History including pre-colonial period to independence</p> <p><b>Ancient Civilizations</b> 6<sup>th</sup> Grade: Demonstrates knowledge and skills within unit guidelines: World geography and history focusing on ancient civilizations</p>	<ul style="list-style-type: none"> <li>• Acquires significant depth of knowledge of historical periods</li> <li>• Analyzes historical, political, or economic issues using elements of reasoning (purpose, point of view, implications/consequences, evidence/data, inferences, concepts/ideas, assumptions)</li> <li>• Understands how societal values influence systems (i.e. laws, leadership, economics, and education)</li> <li>• Analyzes primary and secondary source documents to define ideas, problems, assumptions, perspectives, and expected outcomes</li> <li>• Investigates past cultures, including aspects of art, education, and government, and identifies connections across cultures and time</li> <li>• Analyzes historical events for cause and effect relationships and considers them from multiple perspectives</li> <li>• Evaluates the influence of geography on settlement, trade, and historical events</li> </ul>

# Writing

5 <sup>th</sup> /6 <sup>th</sup> Grade Standard	Highly Capable 5 <sup>th</sup> /6 <sup>th</sup> Grade Extensions
<p><b>Writing Process</b> - Strengthens writing by planning, revising, editing, rewrites, or trying a new approach</p>	<ul style="list-style-type: none"> <li>• Demonstrates proficiency in the writing process to enhance their own writing and the writing of their peers</li> <li>• Evaluates and strengthens writing by focusing on how well purpose and audience have been addressed</li> <li>• Uses technology, including the Internet, to produce and publish writing, cite sources, and collaborate with others</li> </ul>
<p><b>Opinion/Argumentative Writing</b>            5<sup>th</sup> Grade: Demonstrates the ability to write opinion pieces with research             6<sup>th</sup> Grade: Produces clear and coherent writing that is appropriately organized to task, audience, and purpose (narrative, argumentative, and informational with research)</p>	<ul style="list-style-type: none"> <li>• Produces argumentative pieces that are representative in development, clarity, and complexity of writing at least one grade level above</li> <li>• Develops an introduction that provides relevant background information, clearly defines the claim, and previews what is to follow</li> <li>• Uses sophisticated transitions to create cohesion and clarify the relationships among ideas and concepts</li> <li>• Supports the claim with well-chosen, clear reasons and elaborates on each in depth using precise language and domain-specific vocabulary</li> <li>• Addresses opposing viewpoints</li> <li>• Provides a concluding section that reviews the reasons and restates and extends the claim</li> <li>• Conducts short research projects to defend a claim, drawing on accurate, credible sources</li> </ul>
<p><b>Informative/Explanatory Writing with Research</b>            5<sup>th</sup> Grade: Demonstrates the ability to write informative/explanatory pieces with research             6<sup>th</sup> Grade: Produces clear and coherent writing that is appropriately organized to task, audience, and purpose (narrative, argumentative, and informational with research)</p>	<ul style="list-style-type: none"> <li>• Produces informative pieces that are representative in development, clarity, and complexity of writing at least one grade level above</li> <li>• Develops an introduction that provides relevant background information, clearly defines the thesis, and previews what is to follow</li> <li>• Uses sophisticated transitions to create cohesion and clarify the relationships among ideas and concepts</li> <li>• Supports the thesis with well-chosen, relevant facts and elaborates on each in depth using precise language and domain-specific vocabulary</li> <li>• Provides a concluding section that reviews the main supports and restates and extends the thesis</li> <li>• Conducts short research projects to answer a question, drawing on accurate, credible sources</li> </ul>
<p><b>Narrative Writing</b>            5<sup>th</sup> Grade: Demonstrates the ability to write narrative pieces             6<sup>th</sup> Grade: Produces clear and coherent writing that is appropriately organized to task, audience, and purpose (narrative, argumentative, and informational with research)</p>	<ul style="list-style-type: none"> <li>• Produces narrative pieces that are representative in development, clarity, and complexity of writing at least one grade level above</li> <li>• Engages and orients the reader and sets up the conflict in an exposition</li> <li>• Uses a variety of effective transition words, phrases, and clauses to convey sequence and signal shifts from one time frame, or setting, to another</li> <li>• Uses narrative techniques, such as dialogue and description, to develop characters, capture the action, and lead to an effective climax</li> <li>• Provides a resolution that follows from the events and resolves the conflict</li> </ul>
<p><b>Conventions</b> - Demonstrates accurate grammar, capitalization, punctuation, and spelling</p>	<ul style="list-style-type: none"> <li>• Applies appropriate grammar and usage, conventions of capitalization, punctuation, and spelling to pieces of greater complexity</li> </ul>