

5th/6th Grade Information for Parents

This document identifies each progress report 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 progress report 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 th Grade Standard	Highly Capable 5 th Grade Extensions
Operations and Algebraic Thinking – Writes and interprets numerical expressions, analyzes patterns and relationships	<ul style="list-style-type: none"> • Applies properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients • Solves real-life and mathematical problems using numerical and algebraic expressions and equations
Numbers and Operations in Base Ten – Understands the place value system, performs operations with multi-digit whole numbers and with decimals to hundredths	<ul style="list-style-type: none"> • Applies and extends previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers • Applies operations with rational numbers to expressions and equations
Number and Operations (Fractions) – Uses equivalent fractions as a strategy to add and subtract fractions, applies and extends previous understandings of multiplication and division to multiply and divide fractions	<ul style="list-style-type: none"> • Uses properties of operations to generate equivalent expressions • Uses equations and inequalities to solve geometry problems
Measurement and Data – Converts like measurement units within a given measurement system, represents and interprets data, understands concepts of volume and relates volume to multiplication and to addition	Students should have mastered Measurement and Data skills prior to 5 th grade QUEST. While the students are expected to apply these skills, there is no grade given for this standard.
Geometry – Graphs points on a coordinate plane to solve real-world and mathematical problems, classifies two-dimensional figures into categories based on their properties	<ul style="list-style-type: none"> • Applies properties of angles to find unknown angles, classify triangles based on properties • Uses tools such as a ruler, compass, and protractor to construct geometric shapes provided given conditions. • Applies formulas to determine area, surface area, and volume of 3-dimensional shapes.
6 th Grade Standard	Highly Capable 6 th Grade Extensions
Ratios and Proportional Relationships - Understands ratio concepts and uses ratio reasoning to solve problems	<ul style="list-style-type: none"> • Analyzes proportional relationships and uses them to solve real-world and mathematical problems
The Number System - Applies and expands learning of multiplication and division to divide fractions by fractions, computes multi-digit numbers, and finds common factors and multiples; applies and extends learning of numbers to the system of rational numbers	<ul style="list-style-type: none"> • Applies and extends previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers • Applies operations with rational numbers to expressions and equations • Uses properties of operations to generate equivalent expressions • Uses equations and inequalities to solve geometry problems
Expressions and Equations - Applies and extends previous learning of arithmetic to algebraic expressions. Reasons about and solves one-variable equations and inequalities; represents and analyzes quantitative relationships between variables	<ul style="list-style-type: none"> • Applies properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients • Solves real-life and mathematical problems using numerical and algebraic expressions and equations
Geometry – Solves real-world and mathematical problems involving area, surface area, and volume	<ul style="list-style-type: none"> • Applies properties of angles to find unknown angles, classify triangles based on properties • Uses tools such as a ruler, compass, and protractor to construct geometric shapes provided given conditions • Applies formulas to determine area, surface area, and volume of 3-dimensional shapes
Statistics and Probability – Develops understanding of statistical variability, summarizes and describes distributions	<ul style="list-style-type: none"> • Uses random sampling to draw inferences about a population • Draws informal comparative inferences about two populations • Investigates chance, processes and develops use, and evaluates probability

Reading

5 th /6 th Grade Standard	Highly Capable 5 th /6 th Grade Extensions
<p>Key Ideas and Details – Determines main ideas and/or the theme and explains how they are supported by key details; summarizes the text; Quotes accurately when drawing inferences from the text</p>	<ul style="list-style-type: none"> • 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 • Determines, explains, and defends a suitable theme in literary text • Determines, explains, and defends relevant central ideas in informational and argumentative texts • Analyzes how character development, plot structure, dialogue, and events propel the action of a literary text • Analyzes interactions, connections, and distinctions amongst individuals, ideas, or events in informational and argumentative texts
<p>Craft and Structure – Determines the meaning of words and phrases as they are used in context</p>	<ul style="list-style-type: none"> • 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 • Applies knowledge of Latin and Greek affixes and roots to deepen understanding of texts from multiple disciplines • Analyzes how the overall structure of a text, as well as specific sections, contributes to the development of its theme or key ideas • Analyzes how differences in the point-of-view of the characters and/or audience create literary effects • 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
<p>Integration of Knowledge and Ideas – Integrates information from several text on the same topic to write or speak about the subject knowledgeably</p>	<ul style="list-style-type: none"> • Integrates information presented in different media or formats, and evaluates the advantages and disadvantages of each • Delineates and evaluates the argument and specific claims in a text, and assesses whether the reasoning is sound and the evidence is relevant and sufficient to support the claims • 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 • 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
5 th Grade Standard	Highly Capable 5 th Grade Extensions
<p>Phonics and Fluency– Reads with sufficient accuracy and fluency to support comprehension and applies phonics and decoding skills to read fluently</p>	<ul style="list-style-type: none"> • Applies Latin and Greek affixes and roots to refine decoding skills for new words • Fluently reads literary and informational texts at least one year above grade level

Science

5 th /6 th Grade Standard	Highly Capable 5 th /6 th Grade Extensions
<p>Demonstrates engineering and technology skills</p>	<ul style="list-style-type: none"> • Acquires significant content knowledge, including work from experts in the field and data from multiple sources • Applies scientific reasoning (purpose, questions, information, inferences, concepts, assumptions, implications, and points of view) to deepen understanding of the natural world • Designs, performs, and reports on the results of experiments related to a given problem • Analyzes data and make inferences to draw conclusions • Demonstrates precision, objectivity, skepticism, persistence, and reflective analysis • Critically reviews outcomes of investigations • Transfers knowledge to make predictions about similar problems • Develops analogies and metaphors to describe a natural object or phenomenon
<p>Demonstrates knowledge and skills within the life science unit</p>	
<p>Demonstrates knowledge and skills within the earth science unit</p>	
<p>5th Grade Standard</p>	
<p>Demonstrates the knowledge and skills within physical science unit</p>	

Social Studies

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

Writing

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