

PERFORMANCE DESCRIPTORS FOR MASTERY

11TH GRADE ENGLISH LANGUAGE ARTS

Reading:

Performance Descriptors

Mastery

Eleventh grade students at mastery level in reading:

objectively summarize and cite strong, thorough evidence to support analysis of connections and inferences; determine how two or more themes and central ideas build on one another to produce a complex account, are shaped and are refined by the order in which points are made; and how complex characters are developed and interact with other characters to advance the plot or develop the theme in literary and informational texts;

analyze cumulative impact of how author's ideas or claims are developed and refined by particular sentences, paragraphs or larger portions of text, how word choice affects and refines meaning and tone and how rhetoric, structure order of events, point of view and cultural experience are used to create various effects including satire, sarcasm, irony and understatement in literary and informational texts;

analyze and defend the representation of literary and informational text in two different artistic mediums, determining which details are emphasized in each account; analyze how an author draws on and transforms source material in literary work; evaluate specific claims and assess validity, relevancy and sufficiency of evidence in informational texts; and analyze seminal U.S. documents of historical and literary significance with a focus on American Literature and Early American historical document;

read and comprehend literary and informational texts in the grades 11-12 text complexity band proficiently with scaffolding as needed at the high end of the range.



Writing:

Performance Descriptors

Mastery

Eleventh grade students at mastery level in writing:

compose logical arguments and informative/explanatory texts in a tone that conveys ideas clearly and establishes the significance of claims, counterclaims, reasons, bias and relevant evidence using techniques such as metaphor, simile and analogy; write narratives that include well-chosen details to build toward a particular tone and outcome, situation or observation; and establish one or more points of view while creating a smooth well-structured progression of experiences or events using a variety of words to link sections of the text;

use technology to develop and strengthen writing by rewriting and trying new approaches; publish and update individual and shared projects using technology's capacity to link to other information and to display information flexibly and dynamically in response to ongoing feedback including new arguments or information;

effectively use advanced searches and narrow or broaden inquiry to conduct short as well as more sustained research projects or to solve a problem; explore multiple avenues, including informational and literary texts to support a research topic, analysis and reflection; assess the strength and limitation of the source and synthesize multiple print and digital sources in terms of task, purpose and audience; integrate information into the text selectively to maintain the flow of ideas; avoid plagiarism and overreliance of any one source; and use standard citation;

write over extended time frames for research-based projects and shorter time frames for specific tasks, purposes and audiences.

Regional Education
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Speaking and Listening:

Performance Descriptors

Mastery

Eleventh grade students at mastery level in speaking and listening:

initiate and participate in collaborative discussions on topics, texts and issues that probe reasoning and evidence and promote diverse creative perspectives; set deadlines; stimulate thoughtful exchange of ideas by posing and responding to questions from diverse perspectives; integrate multiple sources of information and verify or challenge ideas or conclusions in order to make decisions and solve problems; evaluate a speaker's reasoning, tone and emphasis; qualify or justify their own views and make new connections based on the evidence and reasoning presented;

present information, findings and supporting evidence conveying clear and distinct perspective with substance and style appropriate to purpose, audience and task so listeners can follow the line of reasoning; make strategic use of digital media to enhance reasoning, understanding and interest; and adapt speech to a variety of contexts and informal and formal tasks addressing opposing perspectives.

Language:

Performance Descriptors

Mastery

Eleventh grade students at mastery level in language:

use colons to introduce quotations, use semi-colons, hyphenation and parallel structure; incorporate a variety of phrases and clauses for sentence variety and interest and understand that conventions are subject to change over time and are sometimes contested;

apply knowledge of language to write and edit work appropriate for the discipline and writing type, understand how language functions in different contexts to make effective choices for meaning or style and vary syntax using references; conform to the guidelines of a style manual;

clarify a word's usage and interpret figures of speech such as hyperbole and paradox in context and analyze their roles in the text with minimal scaffolding.

11TH GRADE MATHEMATICS

Inferences and Conclusions from Data:

Performance Descriptors

Mastery

Math III students at the mastery level in mathematics:

use available technology to estimate appropriate outcome ranges for a given a set of normally distributed data;

decide if a specified model is consistent with a population based on a random sample and recognize that theoretical results may be different from empirical results;

recognize that the random sample affects validity and based on its accuracy make a prediction of the outcome;

make and analyze decisions based on probability.

Mathematical Practices:

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

Text-dependent Questions:

- Can only be answered with evidence from the text.
- Can be literal (checking for understanding) but must also involve analysis, synthesis, evaluation.
- Focus on word, sentence, and paragraph, as well as larger ideas, themes, or events.
- Focus on difficult portions of text in order to enhance reading proficiency.
- Can also include prompts for writing and discussion questions.

Polynomials, Radical Relationships:

Performance Descriptors

Mastery

Math III students at the mastery level in mathematics:

factor nth degree polynomials into n factors looking for both general methods and shortcuts;

interpret structure in the context of the situation;

derive and apply the formula for the summation of a geometric series;

perform operations with polynomials applying the mathematics they know from the field properties of integers;

determine the factors of a polynomial from the zeros and vice versa; analyze this relationship to sketch the graph;

solve problems using the binomial expansion;

perform operations with rational expressions using the mathematics they know from the field properties of rational numbers;

solve radical and rational equations and check their answers for extraneous roots;

find the intersection(s) of two graphs and explain why the x coordinates are the common solutions;

graph functions using important features and relationships of the graph.



Trigonometry of General Triangles and Trigonometric Functions:

Performance Descriptors

Mastery

Math III students at the mastery level in mathematics:

derive and apply the appropriate formulas to calculate accurately and efficiently the unknown measurements of any triangle;

use the radian measures of the unit circle in practical situations to explain how to calculate the arc length and determine trigonometric values;

use technology to explore and choose trigonometric functions to model periodic data using accurate parameters.

Mathematical Modeling:

Performance Descriptors

Mastery

Math III students at the mastery level in mathematics:

create equations and inequalities from words and use them to solve problems;

interpret the important features of a function in the context of the situation;

analyze different representations of a function in the context of the situation;

build functions by adding a constant function to another function and search for regularity or trends;

build functions by using transformations and search for regularity or trends;

use logarithms to represent exponential models and evaluate the logarithms using technology;

visualize relationships between cross-section and three-dimensional objects;

use ratios and proportions of similar figures to solve real world problems.

Literacy Shifts in All Content Areas:

1. Regular practice with complex text and it's academic language.
2. Reading, writing and speaking grounded in evidence from text, both literary and informational.
3. Building knowledge through content-rich nonfiction.