

Sixth Grade students will:

1. use formulas to find area, volume, perimeter, and surface area graph, locate, identify points, and plot figures using ordered pairs in the coordinate plane
2. apply and extend knowledge and skills to create geometric constructions using appropriate tools (tessellations, etc.)
3. understand congruence, similarity, symmetry, reflections, and translations
4. identify & understand geometric concepts in 2-dimensional & 3-dimensional shapes
5. identify and construct a 3-dimensional object from a net
6. understand and use the order of operations
7. read, write, & evaluate algebraic expressions
8. write equations to represent a situation and solve for the unknown quantity
9. understand and use exponents
10. model addition and subtraction with integers
11. collect and organize data (line plot, frequency table, etc.)
12. calculate and determine best use of mean, median, mode, and range
13. understand, analyze, construct, and read graphs and spreadsheet data
14. use diagrams and formulas to determine probability and use probability to formulate predictions
15. solve problems involving proportional reasoning
16. identify and express ratios using appropriate notation, identify equivalent ratios, and explain ratios that represent a given situation
17. understand decimals in real life estimate and find percents
18. convert decimals to percents and fractions
19. understand terminating and repeating decimals
20. understand and compute time schedules
21. read, write, compare, and order decimals to the millionths place
22. compute, estimate, and round to a given place value
23. understand concepts involving simplification, mixed numbers, and improper fractions
24. understand prime factorization
25. use and convert within the standard and metric system of measurement

District Grading Scale-

93-100 A
83-92 B
74-82 C
64-73 D
0-63 F

Important Links

Compass Odyssey Online Curriculum

<http://ap-compass.mercerschools.org/childu/index.html>

The National Standards

<http://www.corestandards.org/the-standards>

MAP Testing Parent Toolkit

<http://www.nwea.org/sites/www.nwea.org/files/resources/Parent%20Toolkit.pdf>

AR Bookfinder

<http://www.arbookfind.com/UserType.aspx>

Lexile Find-a-book Website

<http://www.lexile.com/findabook/>

6th Grade

MERCER COUNTY ACADEMIC EXPECTATIONS FOR SIXTH GRADE STUDENTS



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www.mercerschools.org

6th Grade

adopted 8/2011

Sixth Grade Expectations:

Reading- *Mercer County School District incorporates the five main research based components of literacy development.*

Phonics-understand how letters represent sounds

Vocabulary-word meaning

Comprehension- understanding text

Fluency-reading with accuracy and speed

Sixth Grade students will:

1. Use word analysis and vocabulary strategies to aid comprehension.
2. Spell required words correctly on vocabulary tests and across the curriculum.
3. Increase the number of high-frequency words spelled correctly in writing, including frequently misspelled words.
4. Read fluently orally and/or silently to increase reading rate by at least two words per week.
5. Gain meaning of text independently by reading with accuracy, speed, and expression.
6. Use word analysis and vocabulary strategies to aid comprehension.
7. Understand figurative language, (similes, metaphors, personification, idioms, alliteration, onomatopoeia, hyperbole) word relationships, and variations in meaning.
8. Distinguish among the associations of words with similar definitions.
9. Use context clues including word, sentences, and paragraphs, to determine meaning.
10. Use words parts (like prefixes, suffixes, and word roots) to determine a word's meaning.
11. Show evidence from the text to support what was read and use prior knowledge to come to a deeper understanding.
12. Provide a summary of the text distinct from personal opinions or judgments.
13. Understand literary elements (theme, character, plot, tone, conflict, and story elements.)
14. Explain how an author develops the point of view of the narrator or speaker in a text.

15. Compare and contrast different types of literature, including media.
16. Read and comprehend literature, both fiction and nonfiction, at the sixth grade level.
17. Independently apply reading strategies including predicting, questioning, clarifying, connecting, summarizing, and inferencing to understand the text.
18. Examine the key ideas of informational text (in sentences, paragraphs, chapters) and how they contribute to the overall meaning.
19. Locating and putting together information from various parts of the text including the glossary, index, table of contents, charts, graphs, etc.
20. Use information presented in different media or formats to understand a topic.
21. Examine an argument and specific claims in a text; Determine whether the claims are supported by reasons and evidence or not.
22. Compare and contrast one writer's presentation of events with that of another.
23. Demonstrate understanding through the creation of a product, such as posters, brochures, PowerPoint, and scrapbooks.
24. Read with fluency (WPM = 120 with 97-98% accuracy).

Writing:

Narrative - tell a story

Expository – explanatory, convey ideas and information

Research Report- builds knowledge through investigation of different topics.

Persuasive – persuasive, opinion topics

Sixth grade students will:

1. Use a multi-step writing process to.
2. Organize ideas using paragraphs.
3. Use descriptive words to create a variety of sentence patterns.
4. Use correct conventions (punctuation, capitalization, spelling, and grammar).
5. Use technology, legible cursive, and print handwriting.

Speaking:

Engage effectively in discussions- building on others' ideas and expressing their own clearly.

Sixth grade students will:

1. Participate in group discussions on a variety of assigned topics.
2. Organize thoughts to summarize and/or retell information.
3. Present information sequentially/logically using appropriate facts.
4. Present orally at an understandable pace and volume.
5. Include multimedia components when appropriate.

Math –

Mercer County School District incorporates the focus of instruction as stated in the Common Core Standards for Math.

Ratios and Proportional Relationships- understand ratio concepts & use ratio reasoning to solve problems.

Number System – apply & extend previous understandings of numbers.

Expressions & Equations – apply & extend previous understandings of arithmetic to algebraic expressions.

Geometry – solve real-world & math problems

Statistics & Probability – understanding of statistical variability.