

6th Math & Math 1 & 2

The student will be able to...

- recite multiplication tables from 1 to 12. #317.02.d
- add, subtract, multiply and divide fractions with unlike denominators. #317.02.c.g
- use the proper order to work through an equation. #317.02.e
- solve basic equations. #320.03.a
- explain the difference between positive & negative numbers. #317.01.f
- add, subtract & multiply decimal numbers. #317.02.b
- solve basic percents. #317.01.c

Pre-Algebra

The student will be able to...

- solve equations containing only one variable. #330.03
- add, subtract, multiply and divide negative and positive integers. #327.02.d
- write and solve proportions. #329.03.a
- use the order of operations to solve problems. #330.02.b
- multiply, divide, add, and subtract fractions and decimals. #327.02.a
- complete problems with English and metric units. #329.01.a
- compute all types of percent problems. #327.01.b

High School Applied Math

The student will be able to...

- multiply, divide, add and subtract integers. #347.01.a
- add, subtract, multiply and divide fractions and decimals. #347.01.a
- compute simple percent problems. #347.01.a
- solve two-step equations. #350.03.a
- use the order of operations to solve problems. #347.02.a
- understand and be able to use variables in equations and expressions. #350.01.a
- round and make estimations. #347.03.a

Beginning Algebra

The student will be able to...

- add, subtract, multiply and divide positive and negative numbers in fraction, decimal, and whole number form. #347.01.a
- rearrange equations to solve for "x". #350.03.a
- find percentages, and change percents to decimal and fraction form. #347.01.a
- solve single variable proportions using the "cross-multiply and divide" technique. #349.03.a
- determine when a relation is a function and they will be able to state the domain and range of a function. #353.01.a
- use formulas to find slope, and write the equation of a line in slope intercept form and in standard form. #351.03.a
- define and find mean, median, and mode. #352.03.a

Intermediate Algebra

The student will be able to...

- solve systems of equations using the algebraic techniques of substitution and elimination. #750.03.a
- foil, combine like terms, apply rules of exponents. #750.03.b
- factor trinomials and polynomials. #350.03.b
- add, subtract, multiply and divide rational expressions. #350.03.b
- simplify, add, subtract, multiply and divide square roots. #347.01.c
- solve single variable equations with inequalities in them, and be able to graph the solution set. #350.03.a

Geometry

The student will be able to...

- describe and classify geometric figures-triangles.#348.01.a,348.02.a-c, 348.04.a
- describe and classify geometric figures. #348.01.a, 348.02.a-c, 348.04.a
- apply properties of polygons to solve problems.#347.03.a, 348.01.a, 348.02.a-c, 348.04.a
- understand congruence and similarity in regards to translation, rotation, reflection, and scale-polygons & triangles. # 351.01.a, 351.01.b, 348.03.a-b
- understand and be able to apply basic trigonometry and other special relationships of right triangles including Pythagorean Theorem. 347.01c 347.03.a, 348.01.a, 348.02.a-c, 348.03.a-b, 351.02.a-c
- understand Planar Relationship & find areas and perimeters of polygons and circles. #347.03.a, 348.01.a, 348.02.a-c, 348.04.a 349.01.a, 349.02.a, 349.04.a, 351.01.b
- find volume and surface areas of three dimensional figures.#347.01.b & d, 347.02.a, 348.03.a-b, 349.01.a, 349.04.a, 349.05.b, 351.01.b

Algebra II

The student will be able to...

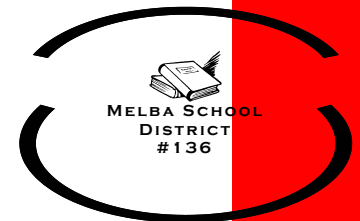
- find slope, write the equation of a line, etc. #351.03.a
- use appropriate techniques for multi-variable problems. #350.04.a
- use the FOIL method to factor and multiply polynomials. #350.03.b
- factor and solve polynomial equations using various techniques. #350.03.b
- apply various rules for exponents when multiplying, dividing, adding, and subtracting monomials. #347.01.c
- simplify square roots. #347.01.c
- multiply, divide, add, subtract, reduce and solve rational expressions. #350.02.a

Pre-Calculus

The student will be able to...

- find slope, distance, midpoint, write the equations of lines, determine intercepts, and graph lines. #351.03.a
- add, subtract, multiply and divide functions, as well as, finding the composition of functions. #353.01.a
- solve single variable polynomials with a degree of two or greater. #350.03.b
- add, subtract, and multiply matrices.
- use matrices to solve systems of equations.
- use the six trig. functions in degree and radian measure. #351.02.a,b

Power Standards for Reading, Language & Math Grades 6-12



6th Grade Reading Standards

The student will be able to...

- draw inferences and conclusions from text. #725.01.f
- identify mood, tone, style and figurative language. #725.01.g
- use personal experiences to make connections with reading material. #725.02.b
- analyze narrative literature using character, setting, plot structure, theme and point of view. #725.02.d
- discuss the author's purpose and describe language and setting support the purpose of the text. #725.03.a
- distinguish between fact/opinion and cause/effect when reading. #725.03.e
- identify the main idea, themes, and make connections using prior knowledge after reading text. #725.04.c
- read to gather information from various resources. #725.04.a
- put info into their own words for report writing purposes. #725.04.a

6th Grade Language Arts Standards

The student will be able to...

- spell words based on their knowledge of letter sounds.
- write using complete sentences. #726.01.a
- write in D'Nealin cursive and it will be legible.
- indent a paragraph and know when to end it and begin a new one, without any hesitation. #726.01.a
- differentiate between a (.) and (!) and know when to use an end mark when writing. #726.02.a

7th Grade Reading Standards

The student will be able to...

- use context clues to develop meaning when reading a passage.
- draw inferences and conclusions from reading material. #734.01.f
- compare and contrast mood, tone, style and figurative language from reading selections. #734.01.g
- discuss the main idea after reading a passage or novel. #734.01.h
- use the following to analyze literature: character, setting, conflict, plot structure, theme, and point of view. #734.02.d
- discuss the author's purpose of a piece of writing. #734.03.a
- distinguish between fact and opinion. #734.03.e
- use questions to guide reading. #734.04.a

7th Grade Language Arts

The student will be able to...

- indent a paragraph and when a paragraph ends. #735.01.a
- identify an essay and have experience writing one. #735.01
- write an essay with a thesis. #735.04.b
- use the basic rules for end marks. #735.02.b
- identify the nouns, verbs and adjectives with no problem. #735.02.a
- identify the eight parts of speech without struggling. #735.02.a
- find other forms of info besides the internet. They need to be exposed to encyclopedias, magazines, newspapers, journals, etc. #735.06

8th Grade Reading Standards

The student will be able to...

- break down words into prefix, suffix and root words for decoding purposes. #743.01.a
- identify and apply figures of speech including hyperboles, idioms, metaphors and similes. #743.01.f
- differentiate between opinion/fact. #743.03.e
- identify and explain each in reading passage. #743.03.e
- organize thoughts and opinions into a 3 paragraph editorial. #743.03.e
- react to a book, give opinions and predict what will happen next. #743.03.d
- identify cause/effect in a reading selection. #743.03.e
- apply cause/effect to own writing. #743.03.e
- find the root of all the effects. #743.03.e
- identify 5 elements of short stories while reading. #742.01.c
- predict outcome of story. #742.01.c

8th Grade Language Arts Standards

The student will be able to...

- identify in a sentence nouns, verbs, adj. #744.02.a
- identify other parts of speech. #744.02.a
- write using the 3 parts of an essay. #744.03
- express personal aspects of life through essays, poems, & drawings. #744.04
- complete assignments with at least 80% accuracy. #744.02.a

9th Grade Reading Standards

The student will be able to...

- describe the characteristics of the novel, short story, drama, poetry & essay. #752.02.a
- describe character, setting & theme. #752.03.b
- evaluate how an author uses language and literary devices to evoke a response: style, format, structure. #752.02.d
- demonstrate reading as a lifetime tool for learning. #752.02.e
- generate relevant and researchable questions. #752.04.a

9th Grade Language Arts Standards

The student will be able to...

- use all steps of the writing process: brainstorm, draft, revise, edit, publish. #753.01.a
- write a 2 part essay. #753.03.b
- write a personal essay. #753.02.a,b
- write a 5 paragraph essay. #753.01.a, #752.02. a,b
- recognize the 8 parts of speech as individual concepts. #753.02.a
- recognize subject, verb, and completer of a kernal sentence. #753.02.a
- recognize, know and use the simple and perfect tenses with limited misuse of participles. #753.02.a

10th Grade Reading Standards

The student will be able to...

- describe, compare and contrast tragic heroes and heroes of tradition. #752.02.d
- use evidence from text to explicate theme. #752.02.b
- relate literature to life. #752.02.b
- read and understand a variety of genres. #752.02.c
- compare and contrast characters and/or events from reading selections. #752.03.c

10th Grade Language Arts Standards

The student will be able to...

- write descriptive essays. #753.01.b
- write personal narrative essays. #753.01.b
- write essays analyzing reading: comparison/contrast, persuasion, theme, character. #753.04.a, #753.05.a,b,c
- identify the 8 parts of speech and their positions with in a sentence. #753.02.a
- parse (break down) a sentence. #753.02.a
- know when to use the 6 basic tenses, how to form them. #753.02.a
- introduce the progressive tenses. #753.02.a
- avoid passive voice. #753.02.a
- understand mood. #753.02.a

11th Grade Reading Standards

The student will be able to...

- explain how an author uses mood, tone, style figurative language and format. #752.01.g
- define characteristics of genres. #752.02.a
- explain the social, cultural and historical significance of American and British Literature. #752.02.c
- evaluate how an author uses style, format and structure. #752.02.d
- analyze character, point of view, organization and form. #752.03.b
- compare and contrast selections within texts. #752.03.c

11th Grade Language Arts Standards

The student will be able to...

- write a grammatically correct essay with a thesis, development, unity, etc (see state standards) #753.02.a,b
- compare, contrast and synthesize ideas and techniques from a variety of literatures and fine arts that represent many cultures and perspectives. #753.04.a
- write an evaluative essay. #753.04.b
- analyze and evaluate for purpose, ideas, style, structure and effectiveness. #753.05.a