

Grade 11 Priority Expectations

Tuesday, 21 August 2007

Data Analysis, Probability, Statistics | Measurement | Number Sense and Numeration | Patterns, Functions, Algebra

Data Analysis, Probability, Statistics

M11.DPS.1

The learner will be able to determine whether a sample is biased.

Strand
Bloom's
Scope

Data Analysis
Comprehension
Master

M11.DPS.2

The learner will be able to predict the odds for and against a particular outcome in a specific real world scenario.

Strand
Bloom's
Scope

Probability
Analysis
Master

M11.DPS.3

The learner will be able to identify the combinations in a given situation.

Strand
Bloom's
Scope

Combinations
Application
Master

M11.DPS.4

The learner will be able to identify the permutations in a given situation.

Strand
Bloom's
Scope

Permutations
Application
Master

M11.DPS.5

The learner will be able to make interpretations and examine data displayed in various forms, including box-and-whisker plots, histograms, scatter plots and circle graphs.

Strand
Bloom's
Scope

Graphical Forms
Analysis
Master

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Measurement

M11.MEA.1

The learner will be able to solve real world or mathematical problems that involve the effects of changes to the dimensions of a shape or the volume, surface area, area, perimeter, or circumference of the shape.

Strand
Bloom's

Scope

Problem Solving
Analysis
Master

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Number Sense and Numeration

M11.NSN.1

The learner will be able to solve problems through the use of ratios or proportions.

Strand
Bloom's
Scope

Ratio/Proportion

Application
Master

M11.NSN.2

The learner will be able to use estimation to determine the reasonableness of a calculation.

Strand
Bloom's
Scope

Estimation
Application
Master

M11.NSN.3

The learner will be able to apply the four basic operations on rational numbers.

Strand
Bloom's
Scope

Number Operations
Application
Master

M11.NSN.4

The learner will be able to recognize subsets of the real number system.

Strand
Bloom's
Scope

Real Number Properties
Knowledge
Master

M11.NSN.5

The learner will be able to express fractions, decimals, and percents in appropriate form as needed for solving problems presented in a real world context.

Strand
Bloom's
Scope

Problem Solving
Comprehension
Master

M11.NSN.6

The learner will be able to use percents to solve real world problems.

Strand
Bloom's
Scope

Percent
Application
Master

M11.NSN.7

The learner will be able to choose the appropriate operation to obtain solutions to real world multiple step problems involving integers, ratios, rates, proportions, percents, decimals and fractions.

Strand
Bloom's
Scope

Problem Solving
Analysis
Master

M11.NSN.8

The learner will be able to express fractions, decimals, and percents in appropriate form as needed for solving problems presented in a real world context.

Strand
Bloom's
Scope

Equivalent Forms
Comprehension
Master

M11.NSN.9

The learner will be able to compute using operations involving roots and powers.

Strand
Bloom's
Scope

Number Operations
Application
Master

M11.NSN.10

The learner will be able to compare and contrast the real number system and its various sub-systems with regard to their structural characteristics.

Strand
Bloom's
Scope

Comparison
Analysis
Master

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Patterns, Functions, Algebra

M11.PFA.1

The learner will be able to recognize the inverse relationships between exponentiation and root extraction.

Strand
Bloom's
Scope

Inverse Operations
Comprehension
Master

M11.PFA.2

The learner will be able to use a table of values to graph linear equations on a coordinate plane.

Strand
Bloom's
Scope

Real Numbers/Coordinate Plane
Application
Master

M11.PFA.3

The learner will be able to determine the slope of a line given the graph of the line, including vertical and horizontal lines.

Strand
Bloom's
Scope

Real Numbers/Coordinate Plane
Knowledge
Master

M11.PFA.4

The learner will be able to interpret the meaning of the slope of a line from a graph representing a real world situation.

Strand
Bloom's
Scope

Real Numbers/Coordinate Plane
Analysis
Master

M11.PFA.5

The learner will be able to explain and illustrate patterns and functional relationships using tables, charts, graphs, algebraic expressions, rules, and oral descriptions.

Strand
Bloom's
Scope

Functions
Application
Master

M11.PFA.6

The learner will be able to determine a function rule to explain tables of related input-output variables.

Strand
Bloom's
Scope

Functions
Application

Master

M11.PFA.7

The learner will be able to apply the information given in a table, graph, or rule to decide whether a function is linear and justify the reasoning behind the decision.

Strand
Bloom's
Scope

Functions
Application
Master

M11.PFA.8

The learner will be able to translate word expressions into algebraic equations.

Strand
Bloom's
Scope

Equations
Synthesis
Master

M11.PFA.9

The learner will be able to factor basic quadratic expressions.

Strand
Bloom's
Scope

Factoring
Application
Master

M11.PFA.10

The learner will be able to graph linear equations with two variables given suitable information.

Strand
Bloom's
Scope

Linear Equations/Inequations
Application
Master

M11.PFA.11

The learner will be able to recognize the slope and/or intercepts of a linear equation.

Strand
Bloom's
Scope

Linear Equations/Inequations
Knowledge
Master

M11.PFA.12

The learner will be able to write the equation of a line when presented with suitable information.

Strand
Bloom's
Scope

Linear Equations/Inequations
Application
Master

M11.PFA.13

The learner will be able to perform addition, subtraction, and multiplication of polynomials.

Strand
Bloom's
Scope

Polynomials
Application

Master

M11.PFA.14

The learner will be able to find monomial factors in polynomials.

Strand
Bloom's
Scope

Polynomials
Application
Master

M11.PFA.15

The learner will be able to solve quadratic equations by factoring.

Strand
Bloom's
Scope

Equations: Quadratic
Application
Master

M11.PFA.16

The learner will be able to differentiate between functions and relations.

Strand
Bloom's
Scope

Functions: Relations
Analysis
Master

M11.PFA.17

The learner will be able to evaluate the reasonableness of a given solution.

Strand
Bloom's
Scope

Problem Solving
Evaluation
Master

M11.PFA.18

The learner will be able to use the order of operations to write expressions from real world scenarios.

Strand
Bloom's
Scope

Expressions
Application
Master

M11.PFA.19

The learner will be able to simplify expressions containing integers, exponents, and roots.

Strand
Bloom's
Scope

Expressions
Application
Master

M11.PFA.20

The learner will be able to convey relationships by writing equations or inequalities.

Strand
Bloom's
Scope

Equations
Application
Master

M11.PFA.21

The learner will be able to combine like terms and use the properties of real numbers to simplify algebraic expressions that illustrate real world situations.

Strand
Bloom's
Scope

Expressions
Application
Master

M11.PFA.22

The learner will be able to evaluate numerical or algebraic expressions with or without exponents.

Strand
Bloom's
Scope

Expressions
Application
Master

M11.PFA.23

The learner will be able to graph linear equations and inequalities on the number line.

Strand
Bloom's
Scope

Equations
Application
Master

M11.PFA.24

The learner will be able to make translations of verbal sentences into algebraic equations and inequalities.

Strand
Bloom's
Scope

Equality/Inequality
Synthesis
Master

M11.PFA.25

The learner will be able to solve single-step and multi-step linear equations that illustrate real world scenarios.

Strand
Bloom's
Scope

Real Numbers/Coordinate Plane
Application
Master

M11.PFA.26

The learner will be able to evaluate basic algebraic expressions.

Strand
Bloom's
Scope

Expressions
Application
Master

M11.PFA.27

The learner will be able to translate word expressions into algebraic expressions.

Strand
Bloom's
Scope

Expressions
Synthesis
Master

M11.PFA.28

The learner will be able to obtain solutions to linear equations employing a variety of methods.

Strand
Bloom's
Scope

Linear Equations/Inequations
Application
Master

M11.PFA.29

The learner will be able to simplify algebraic expressions.

Strand
Bloom's
Scope

Expressions: Simplify
Application
Master

M11.PFA.30

The learner will be able to simplify numeric expressions.

Strand
Bloom's
Scope

Expressions: Simplify
Application
Master

M11.PFA.31

The learner will be able to develop mathematical definitions and/or express generalizations derived through explorations.

Strand
Bloom's
Scope

Algebraic Concepts
Evaluation
Master

M11.PFA.32

The learner will be able to ask clarifying and extending questions regarding mathematical concepts in written or verbal form.

Strand
Bloom's
Scope

Algebraic Concepts
Synthesis
Master

M11.PFA.33

The learner will be able to ponder and/or clarify mathematical concepts and relationships.

Strand
Bloom's
Scope

Problem Solving
Evaluation
Master

M11.PFA.34

The learner will be able to represent and analyze relationships using tables, rules, equations, and graphs.

Strand
Bloom's
Scope

Algebraic Concepts
Analysis
Master

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