

Wyoming Department of Education Required Virtual Education Course Syllabus

Park County School District # 1

Program Name	Park #1 Online	Content Area	Math
Course ID	OL5413	Grade Level	9th-12th
Course Name	FVS Liberal Arts Math (S2)	# of Credits	0.5
SCED Code	02055G0.5022	Curriculum Type	Math

COURSE DESCRIPTION

Semester-long course purchased through Florida Virtual and used for our district students. Liberal Arts Mathematics I is a course designed to strengthen mathematical skills for study beyond Algebra I. The course can be used as needed to fit individual district course progression plans and can be taken either before or after Algebra 1. The topics include, but are not limited to, linear equations and inequalities, operations with polynomials, data representation and analysis, geometric constructions, symmetry, similarity, systems of linear equations and inequalities, functions, quadratic equations, exponential equations, rational equations, radical equations, and graphing equations and functions.

WYOMING CONTENT AND PERFORMANCE STANDARDS

STANDARD#	BENCHMARK (Standard/Indicator) Use the Standards and Benchmarks as Spreadsheets
WY.MP	Mathematical Practices Make sense of problems and persevere in solving them, Construct viable arguments and critique the reasoning of others, Use appropriate tools strategically, Attend to precision, Look for and make use of structure, Look for and express regularity in repeated reasoning
WY.N	Number and Quantity
N-RN N-Q	The Real Number System, Quantities
WY.A	Algebra
A-SSE A-APR A-CED A-REI	Seeing Structure in Expressions, Arithmetic with Polynomials and Rational Functions, Creating Equations, Reasoning with Equations and Inequalities
WY.F	Functions
F-IF F-BF F-LE	Interpreting Functions, Building Functions, Linear and Exponential Models
WY.G	Geometry
G-CO G-SRT G-C G-GMD G-MG	Congruence, Similarity, Right Triangles, and Trigonometry, Circles, Geometric Measurement and Dimension, Modeling with Geometry
WY.S	Statistics and Probability
S-ID	Interpreting Categorical and Quantitative Data

SCOPE AND SEQUENCE

UNIT OUTLINE	STANDARD#	OUTCOMES OBJECTIVES/STUDENT CENTERED GOALS
Linear Functions		
05.01 Using Different Forms of Linear Equations	MP.7 A-CED.G.1 F-IF.A.2 F-LE.F.1	How do you use different forms of linear equations?
05.02 Writing Linear Equations	MP.7 A-CED.G.1 F-IF.A.1 F-LE.F.1	How do you write linear equations?
05.03 Graphing Linear Equations	MP.7 A-CED.G.1 F-IF.A.2 F-LE.F.1	How do you graph linear equations?
05.04 Solving Systems of Linear Equations Graphically	MP.7 A-CED.G.1 A-REI.H.1	How do you solve linear equations graphically?
05.05 Solving Systems of Linear Equations Algebraically	MP.7 A-CED.G.1 A-REI.H.1	How do you solve linear equations algebraically?
05.06 Solving Linear Inequalities in Two Variables	MP.7 A-REI.H.1	How do you solve linear inequalities?
Quadratic Functions		
06.01 Solving Quadratic Equations	MP.5 A-REI.H.1 F-LE.F.1	How do you solve quadratic equations?
06.02 Interpreting Quadratic Expressions	MP.5 A-SSE.A.1 A-APR.C.1	How do you interpret quadratic expressions?
06.03 Graphing Quadratic Functions	MP.5 A-CED.G.1 F-IF.A.2 F-LE.F.1	How do you graph quadratic functions?
06.04 Analyzing Quadratic Functions	MP.7 A-CED.G.1 F-IF.A.1 F-LE.F.1	How do you analyze quadratic functions?
Exponential Functions		
07.01 Writing Exponential Functions	MP.7 A-SSE.A.1 A-CED.G.1 F-IF.A.1 F-LE.F.1	How do you write exponential functions?
07.02 Analyzing Exponential Functions	MP.7 A-SSE.A.1 A-CED.G.1 F-IF.A.1 F-LE.F.1	How do you analyze exponential functions?
07.03 Graphing Exponential Functions	MP.5 A-SSE.A.1 A-CED.G.1 F-IF.A.2 F-LE.F.1	How do you graph exponential functions?
Other Types of Equations		
08.01 Solving Radical Equations	MP.7 N-RN.B.3 A-REI.H.1	How do you solve radical equations?

08.02 Solving Rational Equations	MP.7 A-APR.C.1 A-REI.H.1	How do you solve rational equations?
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