

Wyoming Department of Education Required Virtual Education Course Syllabus

Park County School District # 1

Program Name	Park #1 Online	Content Area	Math
Course ID	OL5475	Grade Level	9th-12th
Course Name	FVS Geometry (S1)	# of Credits	0.5
SCED Code	02072G0.5012	Curriculum Type	Math

COURSE DESCRIPTION

Semester-long course purchased through Florida Virtual and used for our district students. Geometry is everywhere, not just in pyramids. Engineers use geometry to build highways and bridges. Artists use geometry to create perspective in their paintings, and mapmakers help travelers find things using the points located on a geometric grid. Throughout this course, students travel a mathematical highway illuminated by spatial relationships, reasoning, connections, and problem solving.

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, Reason abstractly and quantitatively, Construct viable arguments and critique the reasoning of others, Model with mathematics, 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 N-VM	The Real Number System, Quantities, Vector and Matrix Quantities
WY.A	Algebra
A-CED A-REI	Creating Equations, Reasoning with Equations and Inequalities
WY.F	Functions
F-IF F-BF F-LE F-TF	Interpreting Functions, Building Functions, Linear and Exponential Models, Trigonometric Functions
WY.G	Geometry
G-CO G-SRT G-C G-GPE G-MD G-MG	Congruence, Similarity, Right Triangles, and Trigonometry, Circles, Expressing Geometric Properties with Equations, Geometric Measurement and Dimension, Modeling with Geometry

SCOPE AND SEQUENCE

UNIT OUTLINE	STANDARD#	OUTCOMES OBJECTIVES/STUDENT CENTERED GOALS
01.01 Basics of Geometry	MP.5 G.CO.A.1 G.CO.B.6 G.CO.C.9 G.CO.D.12	What is geometry?
01.02 Basic Constructions	MP.5 G.CO.A.1 G.CO.C.10	What are the basic constructions of geometry?
01.03 Constructing with Parallel and Perpendicular Lines	MP.5 G.CO.A.1 G.CO.C.10	How do you construct with parallel and perpendicular lines?
01.05 Constructing with Technology	MP.5 G.CO.D.12 G.CO.D.13	How do you construct with technology?
01.06 Introduction to Proofs	MP.5 G.CO.C.9 G.CO.C.10	What are proofs?
02.01 Translations	MP.5 G.SRT.E.1	What are translations?
02.02 Reflections	MP.5 G.SRT.E.1	What are reflections?
02.03 Rotations	MP.5 G.SRT.E.1	What are rotations?
02.05 Rigid Motions and Congruence	MP.5 G.CO.A.4 G.CO.B.6	What are rigid motions and congruence?
03.01 Line and Angle Proofs	MP.5 G.CO.C.9 G.CO.C.10	What are line and angle proofs?
03.02 Triangle Proofs	MP.5 G.CO.C.10	What are triangle proofs?
03.04 Parallelogram Proofs	MP.5 G.CO.C.11	What are parallelogram proofs?
04.01 Dilations	MP.5 G.SRT.E.1	What are dilations?
04.02 Similar Polygons	MP.5 G.SRT.E.2	What make polygons similar?
04.04 Similar Triangles	MP.5 G.SRT.E.2	What make triangles similar?
05.01 Triangle Congruence and Similarity	MP.5 G.SRT.F.5 G.SRT.G.6	What is triangle congruence and similarity?
05.03 Application of Congruence and Similarity	MP.5 G.SRT.F.5 G.SRT.G.6	What is the application of congruence and similarity?