

Wyoming Department of Education Required Virtual Education Course Syllabus

Park County School District # 1

Program Name	Park #1 Online	Content Area	Science
Course ID	OL5355	Grade Level	9th-12th
Course Name	FVS Physical Science (S2)	# of Credits	0.5
SCED Code	03159G0.5022	Curriculum Type	Science

COURSE DESCRIPTION

Semester-long course purchased through Florida Virtual and used for our district students. This course is designed as an interactive, 21st century course focusing on basic physics and chemistry. Topics include forces and motion, energy through waves, electricity and magnetism, the matter around us, chemical bonding and reactions. This course is designed to serve as a foundation for the study of the physical sciences. The utilization of scientific inquiry, web 2.0 tools, interactive experiences, higher order thinking, collaborative projects, real world application through labs and a variety of assessments all aid the student in ultimately demonstrating a vast understanding of the importance of the physical and chemical properties of the world around them; enabling them to apply these properties to their everyday lives.

WYOMING CONTENT AND PERFORMANCE STANDARDS

STANDARD#	BENCHMARK (Standard/Indicator) Use the Standards and Benchmarks as Spreadsheets
WY.1	Concepts and Processes
SC11.1	Life Systems, Earth and Space Systems, Geochemical Cycles
WY.2	Science as Inquiry
SC11.2	Students use research scientific information and present findings through appropriate means, Students use inquiry to conduct scientific investigations
WY.3	History and Nature of Science in Personal and Social Decisions
SC11.3	Students examine the nature and history of science, Students examine how scientific information is used to make decisions
WY.RST	Reading Standards for Literacy in Science and Technical Subjects
	Key Ideas and Details, Craft and Structure, Integration of Knowledge and Ideas, Range of Reading and Level of Text Complexity
WY.WHST	Writing Standards for Literacy in Science and Technical Subjects
	Text Types and Purposes, Production and Distribution of Writing, Research to Build and Present Knowledge, Range of Writing

SCOPE AND SEQUENCE

UNIT OUTLINE	STANDARD#	OUTCOMES OBJECTIVES/STUDENT CENTERED GOALS
04.01 States of Matter	SC11.1 SC11.2 RST WHST	What are the states of matter?
04.02 Classifying Matter	SC11.1 SC11.2 RST WHST	What are the classifications of matter?
04.03 Properties of Matter	SC11.1 SC11.2 RST WHST	What are the properties of matter?
04.04 Atomic Theory	SC11.1 SC11.2 SC11.3 RST WHST	What is the atomic theory?
04.05 Properties of Atoms	SC11.1 SC11.2 RST WHST	What are the properties of atoms?
04.06 The Periodic Table of Elements	SC11.1 SC11.2 SC11.3 RST WHST	What is the periodic table of elements?
04.07 Periodic Table Lab Activity	SC11.1 SC11.2 RST WHST	
05.01 Electrons and Bonding	SC11.1 SC11.2 RST WHST	What do you know of electrons and bonding?
05.02 Ionic and Covalent Bonds	SC11.1 SC11.2 RST WHST	What are ionic and covalent bonds?
05.03 Chemical Formulas	SC11.1 SC11.2 RST WHST	What are chemical formulas?

05.04 Hydrogen Hydroxide	SC11.1 SC11.2 RST WHST	What is hydrogen hydroxide?
05.05 Acids and Bases	SC11.1 SC11.2 RST WHST	What are acids and bases?
05.06 Acid and Base Indicators	SC11.1 SC11.2 RST WHST	What are some acid and base indicators?
06.01 Chemical Reactions	SC11.1 SC11.2 RST WHST	What are chemical reactions?
06.02 Classifying Chemical Reactions	SC11.1 SC11.2 RST WHST	How do you classify chemical reactions?
06.03 Chemical Reactions and Energy	SC11.1 SC11.2 RST WHST	What are some chemical reactions related to energy?
06.04 Reaction Rates and Temperature	SC11.1 SC11.2 RST WHST	What are reaction rates and temperature?
06.05 Radioactivity	SC11.1 SC11.2 RST WHST	What is radioactivity?
06.06 Nuclear Reactions	SC11.1 SC11.2 SC11.3 RST WHST	What are nuclear reactions?
06.07 Impact of Biotechnology	SC11.1 SC11.2 RST WHST	How can chemistry improve our lives?