

# Wyoming Department of Education Required Virtual Education Course Syllabus

## Park County School District # 1

Program Name	Park #1 Online	Content Area	Science
Course ID	OL5354	Grade Level	9th-12th
Course Name	FVS Physical Science (S1)	# of Credits	0.5
SCED Code	03159G0.5012	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#	<a href="#">BENCHMARK (Standard/Indicator) Use the Standards and Benchmarks as Spreadsheets</a>
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
01.02 Speed, Velocity, and Acceleration	SC11.2 RST WHST	What is speed, velocity and acceleration?
01.03 The Laws of Motion	SC11.1 SC11.2 RST WHST	What are the laws of motion?
01.04 Forces in Action	SC11.1 SC11.2 SC11.3 RST WHST	What forces are involved in action?
01.05 Energy	SC11.1 SC11.2 RST WHST	What is energy?
01.06 Work and Power	SC11.1 SC11.2 RST WHST	What is work and power?
02.01 Waves	SC11.1 SC11.2 RST WHST	What are waves?
02.02 Sound	SC11.1 SC11.2 SC11.3 RST WHST	What is sound?
02.03 The Electromagnetic Spectrum -The Visible	SC11.1 SC11.2 SC11.3 RST WHST	What is the electromagnetic spectrum? (The Visible)
02.04 The Electromagnetic Spectrum - The Non-Visible	SC11.1 SC11.2 SC11.3 RST WHST	What is the electromagnetic spectrum? (The Non-Visible)
02.05 Science and You	SC11.2 SC11.3 RST WHST	What is science to you?

03.01 Electrical Charges	SC11.1 SC11.2 RST WHST	What are electrical charges?
03.02 Electric Current	SC11.1 SC11.2 RST WHST	What is an electrical current?
03.03 Circuits	SC11.1 SC11.2 RST WHST	What are electrical circuits?
03.04 Electromagnetism	SC11.1 SC11.2 SC11.3 RST WHST	What is electromagnetism?
03.05 Energy Resources	SC11.1 SC11.2 SC11.3 RST	What are renewable and non-renewable resources?
03.06 Human Impacts on the Environment	SC11.1 SC11.2 SC11.3 RST WHST	What is the impact humans have on the enviroment?