

Mr. Moseman's Physical Science - 1st Semester Schedule

Google Classroom Code: Period 3 2jhc742 Period 4 zez55ey Period 5 plsedkc Period 10 gziqtvd	Physical Science Class Syllabus Physical Science Power Essentials Online Textbook: ck12.org Online Graphing Program	UNIT 1: Introduction to Science UNIT 2: Classification of Matter UNIT 3: Atoms, Periodic Table, and Radioactivity UNIT 4: The Structure of Matter UNIT 5: Chemical Reactions	August September October November December
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Date	Essentials/Targets	In-class Topics	Practice Activities
UNIT 1: Introduction to Physical Science Essential 1.0: The student can describe the nature of science including the observation and interpretation of data.			
Aug. 14, 15	Students will be able to explain what the study of physical science involves, reference how science is active in the world today, and review critical thinking skills.	Find your Seat Welcome Back - Review Phone Policy - Index Card - Game - Paper Tower Challenge - Info about your teacher Fun Science Videos Inside a Nuclear Cooling Tower Lithium Ion Batteries What Happens If You Jump Onto A Moving Train? Obtain 1-inch 3-ring binder OR a pocket folder	Introduce Yourself to Your Teacher (on Google Classroom)
Aug. 18, 19	Students will be able to reference the class syllabus for classroom expectations and use critical thinking skills to	Review the Class Syllabus. Class Expectations Bookmark Weekly Planner	Introduce Yourself to Your Teacher (on Google Classroom)

	identify a current problem and write a solution. Students will review common science vocabulary.	Join the Physical Science Google Classroom. Notes: Slides 1-8, Guided Notes Packet Practice Vocab The Extra Piece Puzzle (Team Problem Solving) Obtain 1-inch 3-ring binder OR a pocket folder	
Aug. 20,21	Students will be able to identify the branches of science, define a scientific model, distinguish the differences between a law and a theory, understand the purpose of the scientific method, and identify the basic units of the metric system.	Practice Vocabulary - QUIZ NEXT CLASS! Lab Equipment Check Notes: The Metric System Practice: Metric System and Metric Prefixes WS: Activity: How Good of a Witness Were You?	WS: The Metric System
Aug. 22,25	Students will be able to identify the number of significant figures contained in a numerical value and to work with significant figures in a mathematical operation.	Review Vocabulary/Metric System QUIZ: Target 1.1 - Science Vocabulary Notes: Significant Figures Practice Exercises: SigFigs Demonstration/Lab Practice: Using Measuring Device Correctly LAB: Measuring With Significant Figures	WS: Significant Figures
Aug. 26,27	Students will be able to use significant figures while collecting data and understand the correct method for collecting and reporting information gathered from an experiment.	Review SigFigs Practice Measuring Skills Notes: Scientific Notation LAB: Measuring With Significant Figures	WS: Significant Figures and Scientific Notation

Aug. 28,29	Students will be able to read and write numerical values with scientific notation.	QUIZ: Target 1.2 - Significant Figures/Measuring Warm-Up: Scientific Notation Notes: Accuracy & Precision Practice: Accuracy & Precision Notes: Conversions	WS: Conversions
Sept. 1		No School - Labor Day	
Sept. 2,3	Students will be able to convert between metric prefixes. Students will be able to identify the three main graphical relationships and convert between metric units.	QUIZ: Target 1.3 - Conversions Finish Notes: Conversions Notes: Graphing	WS: Extra Practice
Spet. 4,5	Students will be able to identify the three main graphical relationships and convert between metric units.	Quizizz Review Game Practice Test - check together in class Review for the Test - look over notes, in-class practice problems, worksheets, get help, etc... Prepare Science Notebook for Homework Check next class • Unit 1 Homework Checklist	
Sept. 8,9	Students will be assessed on the essentials. Students will understand how to classify matter into pure substances and mixtures.	Bring your science notebook/folder/binder to class so it can be checked for completion. TEST: Physical Science Concepts and Skills	

UNIT 2: Classification of Matter

2.0 Power Essential: The student can describe the classification of matter.

Sept. 10,11	Students will understand how to classify matter into pure substances and mixtures. Students will be able to classify matter into the following groups: element, compound, solution, colloid, and suspension.	Go Over Test Results Review Test Retake Process ** Introduction to Chemistry ** Scale of the Universe Notes: Slides 1-17 TED video on Mixtures (Watch the video, complete THINK questions) WS: Atoms vs Compounds	WS: Classifying Matter
Sept 12,15	Students will be able to classify matter into the following groups: element, compound, solution, colloid, and suspension.	Review Classifying Matter WS: Matter Particles Lab: Introduction to Pure Substances and Mixtures	WS: What is Matter?
Sept 16,17	Students will be able to define the kinetic-molecular theory, define the different states of matter, and describe a material as it undergoes a phase change.	Review Classifications of Matter Notes: Slides 18-26 States of Matter Simulation	WS: States of Matter PhET
Sept. 18,19	Students will be able to describe the properties of a gas and describe how the variable; Pressure, Volume, and Temperature are related through the Gas Laws.	QUIZ: Target 2.1 - Classifying Matter Warm Up: Can You Classify Matter?	WS16 Phet Simulation - Gas Laws Gas Laws Simulation

Sept. 22,23	Students will be able to identify the difference between a physical property and a chemical property; identify between a physical change and a chemical change.	Warm Up: States of Matter and Energy Notes: Slides 27-31	WS: Gas Laws
Sept. 24,25	Students will be able to identify the difference between a physical property and a chemical property; identify between a physical change and a chemical change.	QUIZ: Target 2.2 - States of Matter Notes: Slides 32-47 Physical/Chemical Properties/Changes	WS: Density
Sept. 26	NO SCHOOL		
Sept. 29,30	Students will be able to identify the difference between a physical property and a chemical property; identity between a physical change and a chemical change.	QUIZ: Target 2.3 - Properties of Matter Review Practice Test	
Oct. 1,2	Students will be assessed on the essentials.	TEST: Matter	Atomic Structure Tutorial - Interactive HW: WS00: History of Atomic Theory Timeline
UNIT 3: Atoms, the Periodic Table, and Radioactivity 3.0 Power Essential: The student can describe the atomic structure of matter and use the periodic table to describe the characteristics of an element.			
Oct. 3,6	Students will be able to describe the development of the atom through history and identify the parts of the atom.	Review Test 2 Results	HW: WS00: History of Atomic Theory Timeline

Oct. 7,8	Students will be able to identify the structure of the atom and construct an atomic diagram of the elements.	Notes: Target 3.1 - History of the Atomic Model (1-12) Handout Periodic Table Printable Periodic Tables Lab: Rutherford Simulation and Isotopes	HW: Atomic Model Timeline
Oct. 9,10	Students will be able to identify trends in the periodic table across periods and families.	Review History of the Atom Notes: Target 3.1 - Atomic Structure (13-18) Subatomic Particles Online: Build an Atom Practice	HW: Atomic Structure
Oct. 13,15	Students will be able to identify trends in the periodic table along periods and families.	Notes: Target 3.1 - Atomic Structure (19-20) What is an Ion? video ← watch this 0:00 to 5:30 What is an Isotope? video ← watch this Isotopes and Elements Practice video ← watch this Introduce the Periodic Bedazzle Project	HW: Bohr Models HW: Ions & Isotopes Isotope Video
Oct. 14	NO SCHOOL - PreACT for 9th and 10th ONLY		
Oct. 16-19	NO SCHOOL-Fall Break		
Oct. 20,21	Students will be able to identify trends in the periodic table along periods and families.	QUIZ: Target 3.1a - Atomic Structure - History of Atomic Models - Basic Atomic Structure (no ions/isotopes) Notes: Target 3.2 - The Periodic Table (21-39) Characteristics of Element Families - Blank Periodic Table	HW: Trends on the Periodic Table Continue working on the Periodic Bedazzle Project A Periodic Puzzle - Good extra practice if necessary
Oct. 22,23	Students will be able to convert between mass, moles, and the number of particles.	QUIZ: Target 3.1b - Atomic Structure Ions/Isotopes Review Trends of the Periodic Table Notes: Target 3.3 - Radiation (40-55)	Continue working on the Periodic Bedazzle Project HW: Types of Radiation

Oct. 24,27	Students will be able to describe the four types of radiation and explain the difference between fission and fusion.	QUIZ: Target 3.2 - Periodic Table Notes: Target 3.3 - Radiation (40-55)	Continue working on the Periodic Bedazzle Project HW: Fission vs Fusion
Oct. 28,29	Students will be able to demonstrate an understanding of the atomic structure of matter and use the periodic table to describe the characteristics and trends of the elements.	Review Turn in Periodic Bedazzle Project	
Oct. 30 Nov. 3	Students will be assessed on the learning goals listed above.	TEST: Atoms, the Periodic Table, Radiation	
Oct. 31	NO SCHOOL		
UNIT 4: The Structure of Matter 4.0 Power Essential: The student can describe chemical interactions.			
Nov. 4,5	Students will be able to identify the nature of the chemical bond and how this influences the properties of a compound.	Review Atoms/Periodic Table Test Results Discuss: Compounds, Molecules, and Bonds, Chemical Bonding (Ionic, Covalent, Metallic)	
Nov. 6,7	Students will distinguish the difference between an ionic bond and a covalent bond. Students will be able to create a Lewis Dot diagram for a given compound.	Discuss: Bonding and Drawing Structures Practice Lewis Structures Lab: Ionic and Covalent Compounds	WS04: Bond Identification

Nov. 10,11	Students will identify the type of bond in various chemical compounds. Students will be able to name chemical compounds.	Discuss: Alloys, Polyatomic Ions, and Naming Compounds Practice Naming Compounds Formula Poker	WS05: Lewis Dot Structures WS08: Naming Ionic Compounds
Nov. 12,13	Students will practice the naming of ionic and covalently bonded compounds.	Practice Naming Compounds	WS07: Ions in Compounds
Nov. 14,17	Students will practice the naming of ionic and covalently bonded compounds.	Practice Naming Compounds	WS10: Naming Covalent Compounds WS11: Naming Compounds (Extra Practice) Molecule Builder (FUN)
Nov. 18,19	Students will practice the naming of ionic and covalently bonded compounds.	Test 04: Chemical Bonding	

UNIT 5: Chemical Reactions

5.0 Power Essential: The student can describe a chemical reaction.

Nov. 20,21	Students will be able to identify the five types of chemical reactions and write a chemical equation.	Review the Chemical Bonding Test Results Discuss: Describing Reactions and Types of Reactions	WS01_ Types of Chemical Reactions
Nov. 24,25	Students will be able to write and balance chemical equations.	Discuss: Writing and Balancing Chemical Equations	WS02_Balancing Chemical Equations 1
Nov. 26-30		HAPPY THANKSGIVING	
Dec. 1,2	Students will be able to describe what contributes to the rate at which a reaction occurs	Discuss: Energy Changes in Reactions and Reaction Rates, and Equilibrium Practice Balancing Reactions	WS03_Balancing Chemical Equations 2

	and write and balance chemical equations.		
Dec. 3,4	Students will be able to write and balance chemical equations.	Practice Writing and Balancing Chemical Equations	WS04_Balancing Chemical Equations 3
Dec. 5,8	Students will be able to identify the reactants and products in a chemical reaction.	Discuss: Reaction Rates	
Dec. 9,10		Review	Answers to Balancing Chemical Equation Worksheets
Dec. 11,12		TEST: Chemical Reactions	
Dec. 15,16		Semester Review	Semester Test Concept Outline Semester Student Created Study Guide Slides Used for Review the Past Several Weeks

Wednesday, December 17th, 2025		Thursday, December 18th, 2025		Friday, December 19th, 2025	
Time	Period	Time	Period	Time	Period
8:05-9:30 am	Open	8:05-9:30 am	Open/Finals Make-up	8:05-9:30 am	Open/Finals Make-up
9:35-11:00 am	4th Final Exam	9:35-11:00 am	5th Final Exam	9:35-11:00 am	2nd Final Exam
11:05-1:15 pm	6th Final Exam	11:05-1:15 pm	7th Final Exam	11:05-1:15 pm	3rd- Final Exam
11:05-11:35 am	6A	11:05-11:35 am	7A	11:05-11:35 am	7A
11:35-12:10 pm	6B	11:35-12:10 pm	7B	11:35-12:10 pm	7B
12:10-12:45 pm	6C	12:10-12:45 pm	7C	12:10-12:45 pm	7C
12:45-1:15 pm	6D	12:45-1:15 pm	7D	12:45-1:15 pm	7D
1:20-2:45 pm	10th Final Exam	1:20-2:45 pm	11th Final Exam	1:15 pm Out for Students	
2:45-4:00 pm	Open/Finals Make-up	2:45-4:00 pm	Open/Finals Make-up	3rd period Teachers take their 7th period lunch time, Mr. Linden will cover the cafeteria duty this day!	
All Dates and Times are subjected to Change					

