

Unit Plan: Welcome to Physical Science

Lesson Topic	What is Physical Science
Estimated Time	7 Days
Objective/Main Ideas	Students will be able to explain the difference between the study of the traditional fields of Earth and Space Science and the study of Earth as a system.
Science Standards	3.2.A.5, 3.2.B.6, 3.4.A, 3.4.B
Related Standards	PACC 3.5, PACC 8.6
CTE Relevancy	
In-Class Activities	Lab - What is Physical Science Notes: What is Physical Science
Out-of-Class Activities	Youtube Video: What is Physical Science Worksheet: What is Physical Science
Assessment	Homework Grade – What is Physical Science Classwork Grade – What is Physical Science Labs Unit Quiz
Materials	Power Point Presentation, Chromebooks, WS – What is Physical Science, Metersticks, Tennis Balls, Stop Watches, Ping Pong Balls, Golf Balls, Foam Balls, Metal Spheres, Ice, Plastic Trays, Metal Trays, Wooden Trays, Spectroscopes, Color Pencils, Pennies, Droppers, Water, Yeast, Baking Soda, Vinegar, Hydrogen Peroxide, Test Tubes

Lesson Topic	What is Science
Estimated Time	7 Days
Objective/Main Ideas	Students will be able to apply the unifying themes of science
Science Standards	3.2.A.5, 3.2.B.6, 3.4.A, 3.4.B
Related Standards	PACC 3.5, PACC 8.6
CTE Relevancy	N/A
In-Class Activities	Notes: What is Science Notes: Unifying Themes of Science Notes: Theories and Laws Lab – Test Tube Rainbows Science Skills Poster
Out-of-Class Activities	Reading: What is Science Reading: Theories and Laws Reading: What is an Experiment Reading: Designing an Experiment Youtube Video: Scientific Method
Assessment	Classwork Grade – Rainbow Lab Classwork Grade – Science Skills Poster Unit Quiz
Materials	Power Point Presentations, Rainbow Lab Handout, Test Tubes, Graduated Cylinders, Colored Water, Beakers, Water, Poster Board, Markers, Chromebooks

Lesson Topic	Applications of Math and Literacy to Science Class
Estimated Time	11 Days
Objective/Main Ideas	Students will be able to explain the relevance of math and literacy to STEM fields
Science Standards	3.2.A.5, 3.2.B.6, 3.4.A, 3.4.B
Related Standards	PACC 3.5, PACC 8.6
CTE Relevancy	The relationship between math, science and CTE fields will be emphasized
In-Class Activities	Lab: How Much is a Million Lab: Calculating the Crust Video: Peoria and Beyond 10 ² Words About Spending 10 ⁶ Dollars Notes: Math and Science Notes: Literacy and Science
Out-of-Class Activities	Reading: Plato's View of Math Reading: Math for Science Reading in the Content Area Packet Daily Reading Logs
Assessment	Classwork Grade – How Much is a Million Lab Classwork Grade – Calculating the Crust Lab Classwork Grade – Million Dollar Essay Homework Grade – Reading Packet Homework Grade – Reading Logs
Materials	Power Point Presentations, Rice, Balances, Graduated Cylinders, Granite, Basalt, Poster Board, Markers, Color Pencils, Peoria Video, Reading Comprehension Packets, Reading Logs, Chromebooks

Lesson Topic	Introduction to STEM
Estimated Time	7 Days
Objective/Main Ideas	Students will be able to explain the relationship between STEM and CTE
Science Standards	3.2.A.5, 3.2.B.6, 3.4.A, 3.4.B
Related Standards	PACC 3.5, PACC 8.6
CTE Relevancy	This lesson emphasizes the importance of STEM to CTE programs and the role that CTE plays in the world of STEM. Each student will write a FAQ Paper about his or her CTE program and the relationship it plays with STEM
In-Class Activities	Science Attitude Survey Draw A Scientist Test Notes – STEM Career Writing Marking Period Project: Research Paper: STEM Careers with a CTE Background
Out-of-Class Activities	Reading: CTE's Role in STEM
Assessment	Classwork Grade – Career Writing Marking Period Project: Research Paper
Materials	Power Point Presentations, Chromebooks