

PROVIDENCE CAREER & TECHNICAL ACADEMY

Subject: Chemistry Syllabus

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Time Frame: Fall 2021/Spring 2022

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Course Description: This course discusses the basic concepts of chemistry. These concepts include matter, energy, and continual changeover earth. This quarter we are focusing on atoms, elements, and molecules basic structure and composition. By the end of the quarter students will be able to construct molecules, explain their chemical composition, and describe the molecules properties.

Required Textbooks, Reading and Supplementary Materials

- Binder
- laptop/chromebook
- wifi access
- access to digital Pearson Chemistry textbook
- pen/pencil

Grading Policy

GRADING POLICY	
35% Quizzes and tests	5% Participation
10% Homework	
50% Classwork	

Assignment examples:

Quizzes and tests:

- We will do quizzes for each chapter and tests for the end of each unit

Classwork:

- labs
- projects and oral presentations
- daily work/binder checks

Homework:

- forms, extended practice, etc.

Participation:

- participating in class activities, discussions, labs

Academic Integrity: Students are expected to submit their own, original work. If a student is talking during a test, he or she will be expected to finish the test on their own after school. If two students turn in the same work, both will be expected to re-submit a new copy of work.

Prior to RTII Plan:

1. The science department shall identify on a monthly basis any student who has frequent absences, several missed assignments, and lack of productivity within the classroom.
2. Upon identifying a student with needs a meeting shall be made with the student, guidance, and the teacher of record to evaluate the student's lack of performance when attending science. This meeting will allow the student and instructor to produce a comprehensive plan with the help of a guidance counselor to get the student to the appropriate performance level. This gives the student the opportunity to be a part of his or her education and redirection of their education.
3. If the student does not comply with the agreement within 2 weeks, a representative from the science department will contact the guidance department to make an appointment for a second conference including the parent to discuss any issues or concerns about their child.
4. If student performance continues to decline the student will be referred to RTII (see below for RTI plan)

RTII Plan:

1. The science department will meet once a month to discuss any potential students who are in the "at risk" category. The "at risk" category is defined as any student missing more than 10 days in one quarter, also any student who fails an assessment from the curriculum.
2. Once any "at risk" students have been identified an EWS form shall be forwarded to guidance and special education. The form will be filed permanently in the science department.
3. The student will be enrolled in weekly after-school tutoring to help provide the student additional support.
4. Check-ins with the students progress and the teacher of record will be monitored.
5. A meeting shall be scheduled with the RTII team to discuss further actions to create a comprehensive plan for the student's to succeed.

Lab Activities (tentative)

Chapter 2 Virtual Lab- Chemical Reactions

Chapter 3 Density Lab

Chapter 4 Rutherford Experiment

Chapter 5 Flame Test Lab

Chapter 6 Heat Energy and Metals Lab

Chapter 7 Ionic Compounds Lab

Chapter 8 Covalent Bonding Lab

Chapter 9 Ionic Naming Lab

Chapter 10 Counting Atoms by Measuring
Mass

Chapter 11 Cations in Solution

Chapter 12. Analysis of Baking Soda Lab

Chapter 13 Ionic compounds and water Lab

Chapter 14 Comparing Real and Ionic Gases

Chapter 15 Conductivity of Electrolyte
Solutions

Chapter 16 Solutions Lab

Chapter 17 Heat of Combustion Lab

Chapter 18 Enthalpy and Entropy Lab

Chapter 19 Acids and Bases Lab

Chapter 20 Redox Titrations

Chapter 21 Electrochemistry Lab