

Adult Basic Education Center High School Referral Program Science Laboratory Information

Program Goal: To offer students the full laboratory component of a life or physical science in order to meet A-G requirements necessary for acceptance into the California State University and University of California systems.

Attendance:

- Lab hours are 4pm 8pm on Tuesdays during the spring semester (March 1st-May 24th).
- You must arrive at the laboratory no later than 4pm to begin a lab. You might not finish all required labs and thus not complete the course if you fail to attend all four hours of laboratory on Tuesdays.
- You are required to complete all labs assigned during the semester(s) you are attending in order to receive credit for the course.
- Once you have completed the laboratory work you can spend the remainder of the time completing your science curriculum.

Location:

- Building 11 Room 2304
- Park in Lots B or D. A valid student parking permit must be purchased and displayed in order to use student parking lots.

Guidelines:

- Only 30 students can be in the lab at any given time; priority is given on a first come first serve basis.
- Use of the laboratory is a privilege and requires that your attitude is serious and mature at all times.
- You must follow all safety rules and scientific procedures at all times when using the laboratory (see attached safety rules).
- You will be asked to leave the lab if you do not adhere to all lab requirements. In order to return and complete the course you will need to schedule a parent
 teacher conference. If you are asked to leave a second time you will no longer be allowed to use the science lab and will not be able to complete the course.

Schedule:

- Below is the lab schedule for the semester.
- You need to choose only one of the dates listed for each lab.
- These are the only dates the labs will be offered.
- Completing each lab on the earlier date is highly recommended to ensure you will be able to use the lab facility and finish your course.

	March 1 or April 12	March 8 or April 19	March 15 or April 26	March 22 or May 3	March 29 or May 10	April 5 or May 17	May 24
Chemistry A	Physical/Chemical Properties/Changes and Now What Do I Do?	Flame Tests	Periodic Properties	Molecular Models	Types of Chemical Reactions	Counting by Measuring Mass	Flame Tests
Chemistry B	Balanced Chemical Equations	Molar Volume of a Gas	Solutions	Specific Heat of a Metal	Titration	Hydrocarbons	Balanced Chemical Equations
Biology A	Using a Compound Light Microscope and Modeling Natural Selection	Mitosis	Identifying Organic Compounds	Observing Osmosis and DNA Fingerprinting	Photosynthesis	Investigating Inherited Traits	Mitosis
Biology B	Fetal Pig Dissection	Particulates and Observing Nervous Responses	Breathing and Holding Your Breath	Fetal Pig Dissection	Investigating Bacterial Fermentation	Yeast Fermentation	Particulates and Observing Nervous Responses

2011

JANUARY

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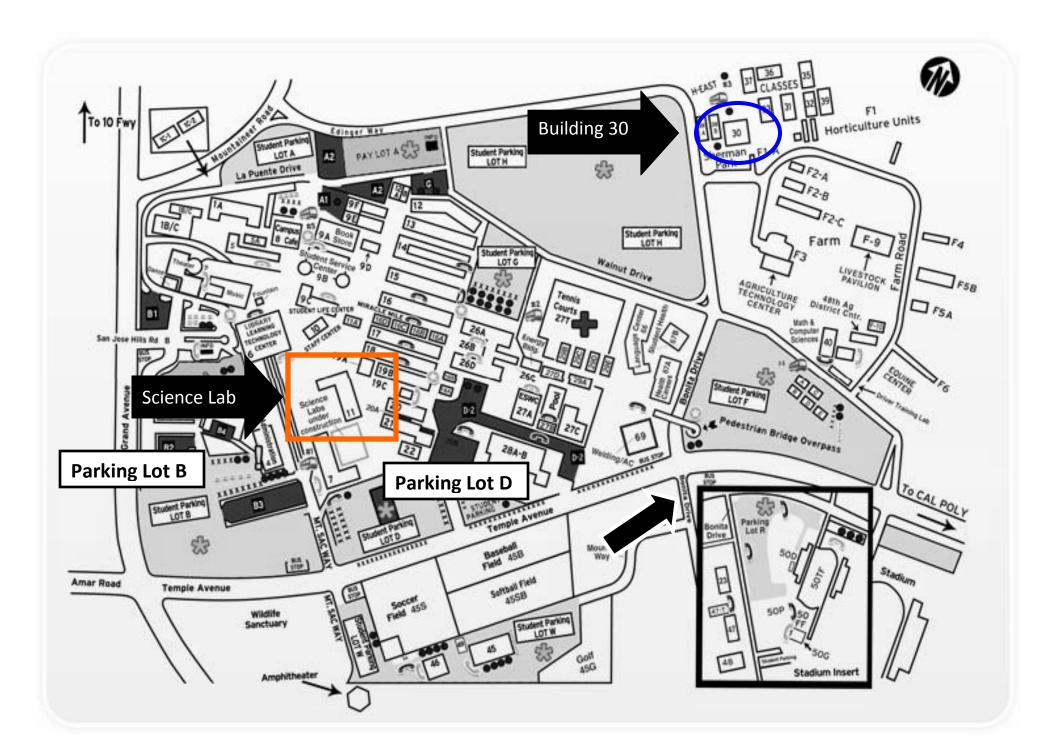
Science Schedule of Classes Winter-Spring

NOTES

Class Session	Bldg. 30 Room 32-4
Lab Session (starts in March)	Bldg. 11 Room 2304
Holidays/Breaks	31 Class Not in Session
Winter Session	January 10 - February 17
Spring Session	February 28 - May 26
Last Day of Class	Thursday, May 26

APRIL							
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22	23	24	25	26	27	28
29	30	31				



Safety Instructions for Science Students

When working in the science laboratory, you will have certain responsibilities that do not apply to other classrooms. You will be working with materials and apparatus, which, if handled carelessly or improperly, have the potential to cause injury. A science laboratory will only be a safe place if you are prepared, alert, and cautious. The following procedures must be followed:

General Procedures

- 1. Prepare for each laboratory activity by reading all instructions before coming to class. Follow all procedures exactly. Make note of any changes in procedure given by the instructor.
- 2. Place books, purses, and backpacks in a designated storage area. Take only laboratory materials and notebooks into the working area.
- 3. Perform only those laboratory activities for which instructions and permission have been given.
- 4. Use only materials and equipment authorized by the instructor.
- 5. Keep work areas clean. Floors and aisles should be kept clear of equipment and materials.
- 6. Eating or drinking in the laboratory or from lab equipment is not permitted.
- 7. Confine long hair during a laboratory activity.
- 8. Student apparel should be appropriate for laboratory work. Long hanging necklaces, bulky jewelry, and excessive and bulky clothing should not be worn in the laboratory.
- 9. Roll long sleeves up above the wrist. Remove coats and bulky sweaters.
- 10. Wear appropriate eye protection, as directed by the instructor. Safety goggles must be worn during more hazardous experiments involving caustic/corrosive chemicals, heating of liquids, and other activities that may injure the eyes.
- 11. Know the location of the emergency shower, eye and face wash fountain, fire extinguisher, and exits.
- 12. Know the proper fire drill procedure.
- 13. Report any accident to the teacher immediately, no matter how minor. This includes any burn, scratch, cut, or corrosive liquid on skin or clothing.

Equipment

- 14. Check labels and equipment instructions carefully. Be sure the correct items are being used in the proper manner.
- 15. Hot glass looks just like cold glass. Determine if an object is hot by bringing the back of your hand up close.
- 16. Use a mechanical pipette filler or bulb (never the mouth) with a pipette to measure small volumes of liquids.
- 17. When removing an electrical plug from its socket, pull the plug, not the electrical cord.
- 18. Light gas burners only as instructed by the teacher.
- 19. Use a burner with extreme caution. Keep your head and clothing away from the flame, and turn it off when not in use.
- 20. Do not bring any substance into contact with flame unless specifically told to do so.
- 21. When heating material in a test tube, do not look into the tube while heating it or point it in the direction of another student.

Chemicals

- 22. Never carry hot equipment or dangerous chemicals through a group of students.
- 23. Never taste or touch any chemicals with the hands unless specifically told to do so.
- 24. Always test for odor of chemicals by waving your hand above the container and sniffing cautiously from a distance.
- 25. Never pour reagents back into bottles, exchange stoppers of bottles, or lay stoppers on the table.
- 26. In case of a burn from an acid or alkali, wash the affected area immediately with plenty of running water. If in the eye, irrigate it for at least 15 minutes. Report the incident immediately.
- 27. Keep hands away from face, eyes, and body while using solutions, specimens, equipment or materials in the laboratory.

Dissection

- 28. Handle scalpels or razor blades with extreme care. Never cut material toward you; cut away from you.
- 29. Notify your teacher immediately if you cut yourself when in the laboratory.

Disposal and Cleanup

- 30. Do not throw used matches into the trashcan. A container should be provided for their disposal.
- 31. Dispose of litmus paper, wooden splints, toothpicks, and so on in the same manner as matches.
- 32. Throw all other solid waste in designated wastebaskets, jars, or other containers. Do not discard any solids such as glass tubing, cover slips, or sand into the sinks.
- 33. Hazardous or toxic liquids must be disposed of properly. Follow the directions of your instructor.
- 34. If an acid or base is spilled, report the spill to the instructor.
- 35. Remove all broken glass from work area and floor as soon as possible. Never handle broken glass with bare hands; use a dustpan and brush. Report broken thermometers to the instructor immediately.
- 36. Wash hands thoroughly at the end of the laboratory period.

STUDENT:

Print name	Signature	Date
not follow these rules, he/sh	ust abide by all of these safety instruction e will not be allowed to use the laboratory. in credit for this course without completing	. I also understand that it is not



High School Referral Program Biology Semester B

Dear Parent or Guardian,

The Biology curriculum at Mt. San Antonio College contains a fetal pig dissection in order to comply with the standards required by the University of California system. This compliance allows students to receive college preparatory credits towards a high school diploma and to complete requirements necessary for acceptance into the Cal State/UC system.

According to California Education Code 32255, a student may opt for an alternative project in lieu of animal dissection. This may consist of a written report, construction of a model, and/or use of digital media to master the content. The assignments will be followed by an evaluation to demonstrate mastery of the anatomy and physiology of the animal. In no way will the student face negative ramifications by exercising his or her decision to refrain from dissection.

Two copies of this letter are provided. Please complete the bottom portion and return one copy of this document. You may keep one copy for your records. If you have any questions, please feel free to call the High School Office at (909) 274-4937.

Ple	ease check one	
	Both my child and I have read the letter and he/she will participate in the sc dissection.	heduled fetal pig
OR	R	
	Both my child and I have read the letter and he/she will not participate in th dissection. I understand that an alternative project will be provided.	e scheduled fetal pig
Stu	udent's Name	
Stu	udent's Signature [Date
Par	rent's Signature	Date

Mt. San Antonio College High School Referral Course Syllabus Chemistry A

Textbook

The textbook used for this course is Prentice-Hall Chemistry by Wilbraham, Staley, Matta, and Waterman. This book should be checked out of the High School office. (Building 30, Room 115)

Course Overview

Chemistry is a sequential, hierarchical science that is descriptive and theoretical. Chemistry requires high-level problem-solving skills, such as designing experiments and solving word problems. For you to learn concepts of chemistry, you must learn new vocabulary, including the rules for naming simple compounds and ions. You will discover and be able to explain the nature of matter and its transformations when you study atomic and molecular structure, the effects of electron interaction, chemical bonds, and stoichiometry. Additionally you will study the properties of gases, acids and bases, and organic and inorganic compounds. You will also explore chemical systems as you study solutions, reactions, and nuclear processes.

Chapters 1 - 9 and 22 - 25

Grading Policy

Class Assignments 20% Laboratory 20% Tests and Quizzes 50% Final Exam 10%

The required work for each chapter will be divided into section objectives. Your assignments are attached to this course syllabus. You must earn a minimum 70% in order to receive credit for this class. Follow instructions carefully and turn in your assignments when completed **IN ORDER**. Tests will be assigned once class assignments, quizzes and projects are finished within each chapter. The instructional staff proctors chapter tests and quizzes.

You must show evidence of your work for all class assignments, laboratories, and exams. NO credit will be given for work without the proper steps shown on your answer sheets.

Students who engage in cheating or plagiarism are subject to immediate dismissal from the High School Program.

STUDENT LEARNING GOALS

We will prepare all students to be:

Effective Communicators who	Lifelong Learners who		
Acquire reading and listening skills	Apply strengths and improve weaknesses		
 Speak and write to be understood 	 Learn and apply new information or skills 		
 Work productively as part of a team 	 Participate productively in the community 		
 Use technology to express ideas 			
Critical Thinkers who	Self-Directed Individuals who		
Gather, organize, and analyze information from a variety of sources	 Set goals, establish, and implement a plan of action 		
 Form and express a logical opinion or conclusion 	Work independently		
 Demonstrate problem-solving skills 	 Seek appropriate information and help 		
 Apply knowledge to personal, professional, or academic situations 			

Class Assignment Rubric

Types of Questions	Description	Point Value
Section Assessment	 All answers must be written as complete sentences. (Answers should not begin with pronouns) Answers must include all information asked. Examples, evidence, and reasons must be provided for each answer and opinion. 	2 points per question
Laboratory	Completed pre-lab questions and laboratory questions All answers must be written as complete sentences. (Answers should not begin with pronouns) Answers must include all information asked. Examples, evidence, and reasons must be provided for each answer and opinion	20 points per lab

Section 1.1 and Chapter 2: Introduction to Chemistry

Standards: 6f

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	<u>POINTS</u>	POINTS EARNED
Section 1.1	1	Read in textbook	7 – 11 1 – 3	 10 total	
Chemistry	2	Complete in Reading and Study Workbook Section Assessment #2, 4, and 7	11	6 total	
Section 2.1 Properties of Matter	3	Read in textbook Complete in Reading and Study Workbook	39 – 42 11 – 13	 10 total	
	4	Section Assessment #1 – 6 and 8	42	14 total	
Section 2.2 Mixtures	5	Read in textbook Complete in Reading and Study Workbook	44 – 47 13 – 14	 10 total	
	6	Section Assessment #11 and 14	47	4 total	
Section 2.3 Elements and	7	Read in textbook Complete in Reading and Study Workbook	48 – 52 15 – 17	 10 total	
Compounds	8	Substances Activity	See Lab Notebook	10 total	
	9	Section Assessment #20 – 22 and 24 – 27	52	14 total	
Section 2.4	10	Read in textbook Complete in Reading and Study Workbook	53 – 55 17 – 18	 10 total	
	11	Section Assessment #28 – 33	55	12 total	
Laboratory	12	Physical and Chemical Properties and Changes	See Lab Notebook	20 total	
Assessment	13	Chapter Exam	See Instructor	100 total	

Chapter 3: Introduction to Measurement Sections 3.1, 3.2, and 3.4

Standards: 4e

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	POINTS	POINT EARNED
Section 3.1 Measurements and Their	14	Read in textbook Complete in Reading and Study Workbook	63 – 72 19 – 22	 10 total	
Uncertainty	15	Practice Problems #1 – 8	68 – 71	16 total	
	16	Section Assessment #13 – 15	72	6 total	
Section 3.2 The International System	17	Read in textbook Complete in Reading and Study Workbook	73 – 79 22 – 25	 10 total	
of Units (SI)	18	Section Assessment #18 – 22 and 26	79	12 total	
Section 3.4 Density	19	Read in textbook Complete in Reading and Study Workbook	89 – 93 29 – 31	 10 total	
	20	Section Assessment #50, 52, 54, 55, 56	93	10 total	
In-class Laboratory	21	Now What Do I Do?	94	10 total	
Assessment	22	Chapter Exam	See Instructor	100 total	

Sections 4.1, 4.2, and 4.3: Introduction to the Atom Sections 25.1, 25.2, and 25.3: Nuclear Chemistry

Standards: 1a, 1e, 1f, 1h, and 11a - 11f

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	POINTS	POINTS EARNED
			101		
Section 4.1	23	Read in textbook	101 – 103	 10 total	
Defining the Atom	24	Complete in Reading and Study Workbook Section Assessment #1 and 2	33 – 34 103	4 total	
	24	Section Assessment #1 and 2	103	4 (0(a)	
Section 4.2	25	Read in textbook	104 – 108		
Structure of the Nuclear		Complete in Reading and Study Workbook	34 – 36	10 total	
Atom	26	Section Assessment #8 – 11 and 14	108	10 total	
Virtual Chemistry Lab	27	Thomson Cathode Ray Tube Experiment	See Lab Notebook	10 total	
Section 4.3 Distinguishing Among	28	Read in textbook Complete in Reading and Study Workbook	110 – 119 36 – 39	 10 total	
Atoms	29	Charting the Particles Worksheet	See Lab Notebook	10 total	
	30	Section Assessment #25 – 27, 30, 32, and 33	119	12 total	
Section 25.1	31	Read in textbook	799 – 802		
Nuclear Radiation		Complete in Reading and Study Workbook	267 – 269	10 total	
	32	Section Assessment #1 – 6	802	12 total	
Section 25.2	33	Read in textbook	803 – 808		
Nuclear Transformations		Complete in Reading and Study Workbook	269 – 271	10 total	
	34	Balance Nuclear Reactions Worksheet	See Lab Notebook	10 total	
	35	Section Assessment #9 and 12	808	4 total	
Section 25.3	36	Read in textbook	810 – 813		
Fission and Fusion of		Complete in Reading and Study Workbook	272	10 total	
Atomic Nuclei	37	Section Assessment #17 and 20	813	4 total	
Assessment	38	Chapter Exam	See Instructor	100 total	

Chapters 5 and 6: Electrons and History of the Periodic Table

Standards: 1a, 1b, 1c, and 1f – 1i

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	POINTS	POINTS EARNED
Section 5.1	39	Read in textbook	127 – 132		
Models of the Atom		Complete in Reading and Study Workbook	43 – 44	10 total	
	40	Section Assessment #1 – 7	132	14 total	
Section 5.2	41	Read in textbook	133 – 136		
Electron Arrangement in		Complete in Reading and Study Workbook	45 – 46	10 total	
Atoms	42	Electron Configuration Worksheet	See Lab Notebook	10 total	
Section 5.3	43	Read in textbook	138 – 146		
Physics and the		Complete in Reading and Study Workbook	46 – 48	10 total	
Quantum Mechanical Model	44	Section Assessment #16 – 18	146	6 total	
Laboratory	45	Flame Tests for Metals	See Lab Notebook	20 total	
Section 6.1	46	Read in textbook	155 – 160		
Organizing the Elements		Complete in Reading and Study Workbook	51 – 52	10 total	
	47	Color a Periodic Table	See Lab Notebook	10 total	
	48	Section Assessment #1 – 7	160	14 total	
Section 6.2	49	Read in textbook	161 – 167		
Classifying the Elements		Complete in Reading and Study Workbook	52 – 54	10 total	
	50	Section Assessment #11 – 15	167	10 total	
Section 6.3	51	Read in textbook	170 – 178		
Periodic Trends		Complete in Reading and Study Workbook	54 – 57	10 total	
	52	Section Assessment #16 – 23	178	16 total	
Laboratory	53	Periodic Properties	See Lab Notebook	20 total	
Assessment	54	Chapter Exam	See Instructor	100 total	

Sections 7.1, 7.2, 8.1, and 9.1 – 9.4: Compounds and Chemical Formulas

Standards: 1d, 1g, and 2a - 2c

READING SELECTION	ASSIGNMENT #	DESCRIPTION	PAGES	POINTS	POINTS EARNED
Section 7.1	55	Read in textbook	187 – 193		
lons		Complete in Reading and Study Workbook	59 – 61	10 total	
	56	Practice Problems #1 and 2	193	22 total	
		Section Assessment #3 – 11			
Section 7.2	57	Read in textbook	194 – 199		
Ionic Bonds and Ionic		Complete in Reading and Study Workbook	61 – 63	10 total	
Compounds	58	Ionic Compounds Worksheet	See Lab	20 total	
		·	Notebook		
	59	Section Assessment #15, 16, 18 – 20, and 22	199	12 total	
Virtual Chemistry Lab	60	Names and Formulas of Ionic Compounds	See Lab Notebook	20 total	
Section 8.1	61	Read in textbook	213 – 216		
Molecular Compounds		Complete in Reading and Study Workbook	69 – 70	10 total	
	62	Section Assessment #2 – 6	216	10 total	
Section 9.1	63	Read in textbook	253 – 258		
Naming Ions		Complete in Reading and Study Workbook	79 – 81	10 total	
	64	Section Assessment #3, and 5 – 9	258	12 total	
Section 9.2	65	Read in textbook	260 – 266		
Naming and Writing		Complete in Reading and Study Workbook	81 – 82	10 total	
Formulas for Ionic Compounds	66	Practice Problems #11 – 13	263 and 265	6 total	
- Composition	67	Section Assessment #14 – 19	266	12 total	
Section 9.3	68	Read in textbook	268 – 270		
Naming and Writing		Complete in Reading and Study Workbook	83 – 84	10 total	
Formulas for Molecular Compounds	69	Section Assessment #20 – 25	270	12 total	

Section 9.4 Naming and Writing Formulas for Acids and	70	Read in textbook Complete in Reading and Study Workbook	271 – 273 84 – 85; 86 – 87	 10 total	
Bases	71	Section Assessment #26 – 33	273	16 total	
Assessment	72	Chapter Exam	See Instructor	100 total	

Chapter 8: Covalent Bonding Sections 8.2, 8.3, and 8.4

Standards: 1g, 2a – 2c, and 2f – 2h

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	<u>POINTS</u>	POINT EARNED
Section 8.2 The Nature of Covalent	73	Read in textbook Complete in Reading and Study Workbook	217 – 229 71 – 73	 10 total	
Bonding	74	Practice Problems #7 – 12	220 and 225	12 total	
	75	Section Assessment #13 – 15 and 21	229	8 total	
Section 8.3 Bonding Theories	76	Read in textbook Complete in Reading and Study Workbook	230 – 236 73 – 74	 10 total	
	77	Section Assessment #23 – 26	236	8 total	
In -class Laboratory	78	Molecular Models	See Lab Notebook	10 total	
Section 8.4 Polar Bonds and	79	Read in textbook Complete in Reading and Study Workbook	237 – 244 75 – 77	 10 total	
Molecules	80	Section Assessment #32	244	2 total	
Assessment	81	Chapter Exam	See Instructor	100 total	

Sections 22.1 – 22.4, Section 23.1, and Sections 24.2 – 24.5: Organic Chemistry

Standards: 2b and 10a - 10d

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	<u>POINTS</u>	POINTS EARNED
Section 22.1	82	Read in textbook	693 – 701		
Hydrocarbons		Complete in Reading and Study Workbook	237 – 239	10 total	
•	83	Section Assessment #7, 8, 10, 11	701	8 total	
Section 22.2	84	Read in textbook	702 – 703		
Unsaturated		Complete in Reading and Study Workbook	239 – 240	10 total	
Hydrocarbons	85	Section Assessment #15 and 17	703	4 total	
	86	Naming Hydrocarbons Worksheet	See Lab Notebook	10 total	
Section 22.3	87	Read in textbook	704 – 707		
Isomers		Complete in Reading and Study Workbook	240 – 241	10 total	
	88	Section Assessment #20, 21, and 25	707	6 total	
Section 22.4	89	Read in textbook	709 – 711		
Hydrocarbons		Complete in Reading and Study Workbook	242 – 243	10 total	
	90	Section Assessment #26 – 29	711	8 total	
Section 23.1	91	Read in textbook	725 – 729		
Introduction to		Complete in Reading and Study Workbook	247 – 248	10 total	
Functional Groups	92	Section Assessment #1 – 4	768	8 total	
Section 24.2	93	Read in textbook	766 – 768		
Carbohydrates		Complete in Reading and Study Workbook	256 – 257	10 total	
•	94	Section Assessment #8, 9, and 11 – 14	768	12 total	
Section 24.3	95	Read in textbook	769 – 773		
Amino Acids and Their		Complete in Reading and Study Workbook	257 – 259	10 total	
Polymers	96	Section Assessment #15 – 18	773	8 total	

Section 24.4	97	Read in textbook	775 – 777	 40 total	
Lipids		Complete in Reading and Study Workbook	259 – 260	10 total	
	98	Section Assessment # 21, 22, and 24	777	6 total	
Section 24.5	99	Read in textbook	778 – 785		
Nucleic Acids		Complete in Reading and Study Workbook	260 – 262	10 total	
	100	Section Assessment #26 – 30	785	10 total	
In-Class Laboratory	101	Hydrocarbons: A Structural Study	See Lab	20 total	
			Notebook		
Assessment	102	Chapter Exam	See Instructor	100 total	
Semester Assessment	103	Final Exam	See Instructor	100 total	

Mt. San Antonio College High School Referral Course Syllabus Chemistry B

Textbook

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Chapters 10 - 19

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 Speak and write to be understood 	 Learn and apply new information or skills
Work productively as part of a team	 Participate productively in the community
 Use technology to express ideas 	
Critical Thinkers who	Self-Directed Individuals who
 Gather, organize, and analyze information from a variety of sources 	 Set goals, establish, and implement a plan of action
 Form and express a logical opinion or conclusion 	Work independently
 Demonstrate problem-solving skills 	 Seek appropriate information and help

Class Assignment Rubric

Types of Questions	Description	Point Value
Section Assessment	 All answers must be written as complete sentences. (Answers should not begin with pronouns) Answers must include all information asked. Examples, evidence, and reasons must be provided for each answer and opinion. 	2 points per question
Laboratory	Completed pre-lab questions and laboratory questions All answers must be written as complete sentences. (Answers should not begin with pronouns) Answers must include all information asked. Examples, evidence, and reasons must be provided for each answer and opinion	20 points per lab

Chemistry: Semester B High School Referral

Chapter 10: The Mole

Standards: 3b, 3c, 3d

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	<u>POINTS</u>	POINTS EARNED
Section 10.1 The Mole: A	1	Read in textbook Complete in Reading and Study Workbook	287 – 296 91 – 93	 10 total	
Measurement of Matter	2	Practice Problems #1 – 8	289 – 296	16 total	
	3	Section Assessment #9 – 15	296	14 total	
Section 10.2 Properties of Matter	4	Read in textbook Complete in Reading and Study Workbook	297 – 303 93 – 94	 10 total	
	5	Practice Problems #16 – 23	298 – 302	16 total	
	6	Section Assessment #24 – 30	303	14 total	
Virtual Chemistry Lab	7	Counting by Measuring Mass	See Lab Notebook	20 total	
Section 10.3 Percent Composition	8	Read in textbook Complete in Reading and Study Workbook	305 – 312 95 – 111	 10 total	
and Chemical Formulas	9	Practice Problems #32 – 39	306 – 312	16 total	
	10	Section Assessment #40 – 46	312	14 total	
Assessment	11	Chapter Exam	See Instructor	100 total	

Sections 11.1 and 11.2: Chemical Equations/Chemical Reactions

Standards: 3a

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	<u>POINTS</u>	POINT EARNED
Section 11.1 Measurements and Their	12	Read in textbook Complete in Reading and Study Workbook	321 – 329 113 – 115	 10 total	
Uncertainty	13	Practice Problems #1 – 6	324 – 328	12 total	
	14	Section Assessment #7 – 12	329	12 total	
Section 11.2 Types of Chemical	15	Read in textbook Complete in Reading and Study Workbook	330 – 339 115 – 117	 10 total	
Reactions	16	Practice Problems #13 – 21	331 – 337	18 total	
	17	Section Assessment #22 – 27	339	12 total	
Laboratory	18	Types of Chemical Reactions	See Lab Notebook	20 total	
Assessment	19	Chapter Exam	See Instructor	100 total	

Chapter 12: Stoichiometry

Standards: 3a and 3e

READING SELECTION	ASSIGNMENT #	DESCRIPTION	PAGES	<u>POINTS</u>	POINTS EARNED
Section 12.1 The Arithmetic of Equations	20	Read in textbook Complete in Reading and Study Workbook Practice Problems #1 – 4	353 – 358 127 – 128 355 – 358	 10 total 8 total	
·	22	Section Assessment # 5 – 10	358	12 total	
Section 12.2 Chemical Calculations	23	Read in textbook Complete in Reading and Study Workbook	359 – 366 129 – 131	 10 total	
	24	Practice Problems #11 – 20	360 – 366	20 total	
	25	Section Assessment #21 – 24	366	8 total	
Virtual Chemistry Lab	26	Analysis of Baking Soda	See Lab Notebook	20 total	
Section 12.3 Limiting Reagent and Percent Yield	27	Read in textbook Complete in Reading and Study Workbook	368 - 371 131 – 135	 10 total	
	28	Practice Problems #25 – 28	370 – 371	8 total	
Assessment	29	Chapter Exam	See Instructor	100 total	

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Section 13.1 and Chapter 14: Gas Laws

Standards: 4a - 4g

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	POINTS	POINTS EARNED
Section 13.1	30	Read in textbook	385 – 389		
The Nature of Gases		Complete in Reading and Study Workbook	137 – 139	10 total	
	31	Practice Problems #1 – 2	387	4 total	
	32	Section Assessment #3 – 7	389	10 total	
Section 14.1	33	Read in textbook	413 – 417		
Properties of Gases		Complete in Reading and Study Workbook	147 – 149	10 total	
	34	Section Assessment #1 – 6	417	12 total	
Section 14.2	35	Read in textbook	418 – 425		
The Gas Laws		Complete in Reading and Study Workbook	149 – 151	10 total	
	36	Practice Problems #7 – 14	419 – 424	16 total	
	37	Section Assessment #15 – 22	425	16 total	
Laboratory	38	Molar Volume of a Gas	See lab notebook	20 total	
Section 14.3	39	Read in textbook	426 – 429		
Ideal Gases		Complete in Reading and Study Workbook	152 – 153	10 total	
	40	Practice Problems #23 – 24	427	4 total	
	41	Section Assessment #25 – 30	429	12 total	
Section 14.4	42	Read in textbook	432 – 436		
Gases: Mixtures and		Complete in Reading and Study Workbook	154 – 157	10 total	
Movements	43	Practice Problems #31 – 32	434	4 total	
	44	Section Assessment #33 – 38	436	12 total	
Assessment	45	Chapter Exam	See instructor	100 total	

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Sections 15.2, 16.1 and 16.2: Solutions

Standards: 6a - 6d

READING SELECTION	ASSIGNMENT #	DESCRIPTION	PAGES	POINTS	POINTS EARNED
Section 15.2 Homogenous Aqueous Systems	46	Read in textbook Complete in Reading and Study Workbook	450 – 456 161 – 164	 10 total	
	47	Section Assessment #8 – 13	457	12 total	
Virtual Chemistry Lab	48	Electrolytes	See Lab Notebook	20 total	
Section 16.1 Properties of Solutions	49	Read in textbook Complete in Reading and Study Workbook	471 – 477 167 – 169	 10 total	
	50	Section Assessment #3, 5 and 6	477	6 total	
Section 16.2 Concentrations of Solutions	51	Read in textbook Complete in Reading and Study Workbook	480 – 486 169 – 171; 175 – 178	 10 total	
	52	Practice Problems #8 – 15	481 – 485	16 total	
	53	Section Assessment #16 – 23	486	16 total	
Laboratory	54	Factors Affecting Solution	See Lab Notebook	20 total	
Assessment	55	Chapter Exam	See Instructor	100 total	

Sections 17.1 – 17.3: Thermodynamics Sections 18.1 and 18.2: Equilibrium and Kinetics

Standards: 7a – 7d

READING SELECTION	ASSIGNMENT #	DESCRIPTION	PAGES	POINTS	POINT EARNED
Section 17.1 The Flow of Energy –	56	Read in textbook Complete in Reading and Study Workbook	505 – 510 183 – 185	 10 total	
Heat and Work	57	Practice Problems #1 – 4	507 and 510	8 total	
	58	Section Assessment #5 – 11	510	14 total	
Section 17.2 Measuring and	59	Read in textbook Complete in Reading and Study Workbook	511 – 517 185 – 187	 10 total	
Expressing Enthalpy Changes	60	Practice Problems #12 – 15	513 and 516	8 total	
	61	Section Assessment #16 – 20	517	10 total	
Laboratory	62	The Specific Heat of a Metal	See Lab Notebook	20 total	
Virtual Chemistry Lab	63	Heat of Combustion	See Lab Notebook	20 total	
Section 17.3 Heat in Changes of State	64	Read in textbook Complete in Reading and Study Workbook	520 – 526 187 – 189 191 – 192	 10 total	
	65	Practice Problems #21 – 26	521 – 526	12 total	
	66	Section Assessment #27 – 31	526	10 total	
Section 18.1 Rates of Reactions	67	Read in textbook Complete in Reading and Study Workbook	541 – 547 193 – 195	 10 total	
	68	Section Assessment #1 – 5	547	10 total	
Section 18.2 Reversible Reactions	69	Read in textbook Complete in Reading and Study Workbook	549 – 559 196 – 197	 10 total	
and Equilibrium	70	Practice Problems #6 – 10	555 – 558	10 total	
	71	Section Assessment #11 – 16	559	12 total	
Assessment	72	Chapter Exam	See Instructor	100 total	

Sections 19.1 and 19.2: Acids and Bases

Standards: 5a - 5f

READING SELECTION	ASSIGNMENT #	DESCRIPTION	<u>PAGES</u>	<u>POINTS</u>	POINTS EARNED
Section 19.1	73	Read in textbook	587 – 593		
Acid-Base Theories		Complete in Reading and Study Workbook	209 – 211	10 total	
	74	Practice Problems #1 and 2	593	16 total	
		Section Assessment #3 – 8			
Section 19.2	75	Read in textbook	594 – 604		
Hydrogen lons and		Complete in Reading and Study Workbook	211 – 214	10 total	
Acidity	76	Practice Problems #9 – 16	596 – 601	16 total	
	77	Section Assessment #17 – 21	604	10 total	
Laboratory	78	Acid – Base Titrations	See Lab	20 total	
			Notebook		
Assessment	79	Chapter Exam	See Instructor	100 total	
Semester Assessment	80	Final Exam	See Instructor	100 points	
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