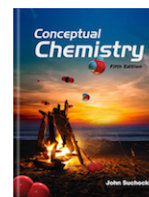




# Conceptual Chemistry, Prep Chem

## Lesson Planner

### One Year, College Prep Chemistry



For an automated calendar using this same information, visit [HomeschoolPlanet.com](http://HomeschoolPlanet.com)

Day	Module Assignments	Action Items
1	Unit A, Particles of Matter, Module 1, Assignment 1	
		Note: This planner is specific to the fifth edition of Conceptual Chemistry, CC5e.
		After purchasing your "Conceptual Chemistry, Prep Chem" Conceptual Academy course, sign into your student profile page.
		Watch the "Tiger Video" to become familiar with the Conceptual Academy interface.
		Carefully review the first "FYI" page.
		Download instructor documents from the Doc Share for your instructor.
		Download information about the lab activities: To the Student, Instructor Notes, Grading Rubric, Materials lists.
		Download the answers to all Practice Page worksheets from the Doc Share: CC5ePPallAns.pdf
		Obtain a composition book into which you can record your observations and answers to questions. We'll refer this as your "field journal"
2	Unit A, Particles of Matter, Module 1, Assignment 2	
		Read the "How To Study Effectively" document from the Doc Share.
		Study Sections: 1.1 - 1.2 (Videos + Textbook)
		Take corresponding video quizzes
3	Unit A, Particles of Matter, Module 1, Assignment 3	
		Perform Activity: 01WWWW.pdf
		See Doc Share to download the PDF
		Record your experience and observations in your field journal.
4	Unit A, Particles of Matter, Module 1, Assignment 4	
		Study Sections: 1.3 - 1.5 (Videos + Textbook)



		Take corresponding video quizzes
5	Unit A, Particles of Matter, Module 1, Assignment 5	
		Perform Activity: Rubber Band Balance
		See Doc Share to download the PDF
		Record your experience and observations in your field journal.
6	Unit A, Particles of Matter, Module 1, Assignment 6	
		Study Section: 1.6 (Videos + Textbook) This includes the Calculation Corner on page 18.
		Take corresponding video quizzes
		Take Module Reading Quiz
7	Unit A, Particles of Matter, Module 1, Assignment 7	
		Download and work on Practice Pages from the Doc Share: CC5e01Pages.pdf
		Note: You'll find the answer key for all Practice Page worksheets in the Doc Share of Module 2. See document: CC5ePPallAnsC.pdf
		Textbook End-of-Chapter Questions (Activities) 19 and 20 (page 20).
		Textbook End-of-Chapter Questions (In Writing): Page 21: Answer 37, 43.
		You can use a second field journal to record your written answers to end-of-chapter questions.
8	Unit A, Particles of Matter, Module 1, Assignment 8	
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
9	Unit A, Particles of Matter, Module 1, Assignment 9	
		Download and listen to the first episode of the Big Picture Podcast (Introduction)
		Also available on iTunes
		Podcast show notes available at <a href="http://ConceptualScience.com">ConceptualScience.com</a>
10	Unit A, Particles of Matter, Module 2, Assignment 1	
		Study Sections: 2.1 - 2.4 (Videos + Textbook)
		Take corresponding video quizzes
		Take Module Reading Quiz

11	Unit A, Particles of Matter, Module 2, Assignment 1	
		Perform at least one of these two activity: 03Mass Density, 04Absolute Zero
		See Doc Share to download the PDF
		Record your experience and observations in your field journal.
12	Unit A, Particles of Matter, Module 2, Assignment 1	
		Download and work on Practice Pages from the Doc Share: CC5e02Pages.pdf
		Answer correctly at least 5 questions from the Homework Practice Session (HPS)
13	Unit A, Particles of Matter, Module 3, Assignment 1	
		Study Sections: 2.5 - 2.7 (Videos + Textbook)
		Take corresponding video quizzes
		Take Module Reading Quiz
14	Unit A, Particles of Matter, Module 3, Assignment 2	
		Textbook End-of-Chapter Questions (Activities) 27 and 29 (pages 50 and 51).
		Textbook End-of-Chapter Questions (In Writing): Page 51: Answer 37, 41.
		Textbook End-of-Chapter Questions (In Writing): Page 52: Answer 53, 55, 61,63.
		Textbook End-of-Chapter Questions (In Writing): Page 53: Answer 69, 71.
15	Unit A, Particles of Matter, Module 3, Assignment 3	
		Play with PhET simulation: States of Matter
		Answer correctly at least 5 questions from the Homework Practice Session (HPS)
16	Unit A, Particles of Matter, Module 4, Assignment 1	
		Study Section: 2.8 (Videos + Textbook)
		Take corresponding video quizzes
		Take Module Reading Quiz
17	Unit A, Particles of Matter, Module 4, Assignment 1	

		Perform Activity: 05GasLaws.pdf
		Record your experience and observations in your field journal.
18	Unit A, Particles of Matter, Module 4, Assignment 1	
		Textbook End-of-Chapter Questions (In Writing): Page 53: Answer 73, 75, 77, 79, 81.
19	Unit A, Particles of Matter, Module 4, Assignment 1	
		Summary Challenge: Summarize the main points of Chapter 2 to some one. Then download and read the chapter summary document: CC5eSum02.pdf. Time and energy permitting, give a second performance of your summary.
20	Unit A, Particles of Matter, Module 4, Assignment 1	
		Download and listen to the second episode of the Big Picture Podcast (Frames)
		Also available on iTunes
21	Unit A, Particles of Matter, Module 4, Assignment 1	
		Take your first unit exam downloadable from the Doc Share of the FYI page. Ideally you'll be able to take this exam with others, including friends and family, as spelled out within the directions.
22	Unit B, Elements of Chemistry Module 1, Assignment 1	
		Study Sections: 3.1 - 3.4 (Videos + Textbook)
		Take corresponding video quizzes
23	Unit B, Elements of Chemistry Module 1, Assignment 2	
		Perform Activity: 06Matter.pdf
		See Doc Share to download the PDF
		Record your experience and observations in your field journal.
24	Unit B, Elements of Chemistry Module 1, Assignment 3	
		Download and work on Practice Pages from the Doc Share: CC5e03Pages.pdf
		Take Module Reading Quiz
25	Unit B, Elements of Chemistry Module 1, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 87: Answer 35, 39, 41, 49, 53, 57.

		Answer correctly at least 7 questions from the Homework Practice Session (HPS)
26	Unit B, Elements of Chemistry Module 2, Assignment 1	
		Study Sections: 3.5 - 3.6 (Videos + Textbook)
		Take corresponding video quizzes
27	Unit B, Elements of Chemistry Module 2, Assignment 2	
		Study Sections: 3.7 - 3.8 (Videos + Textbook)
		Take corresponding video quizzes
28	Unit B, Elements of Chemistry Module 2, Assignment 3	
		Textbook End-of-Chapter Questions (In Writing): Page 86: Answer 27, 29, 31.
		Textbook End-of-Chapter Questions (In Writing): Page 88: Answer 63, 65, 69, 71.
29	Unit B, Elements of Chemistry Module 2, Assignment 4	
		Perform Activity: 07ChemChange.pdf
		Adult supervision and, like all lab activities, wear eye protection.
		See Doc Share to download the PDF.
		Record your experience and observations in your field journal.
30	Unit B, Elements of Chemistry Module 2, Assignment 5	
		Take Module Reading Quiz
		Answer correctly at least 7 questions from the Homework Practice Session (HPS)
31	Unit B, Elements of Chemistry Module 2, Assignment 6	
		Summary Challenge: Summarize the main points of Chapter 3 to some one. Then download and read the chapter summary document: CC5eSum03.pdf. Time and energy permitting, give a second performance of your summary.
32	Unit B, Elements of Chemistry Module 2, Assignment 7	
		Study Contextual Chemistry essay (Life Span) in textbook: Pages 90 - 91. Record responses to Think and Discuss questions in your field journal. Compare your responses to that of the author.
		Note: Author responses to all Contextual Chemistry essays, Explain This, Connection Questions, and end-of-chapter RATS

		are available in the Doc Share of the first module FYI page.
33	Unit B, Elements of Chemistry Module 2, Assignment 8	
		Download and listen to the third episode of the Big Picture Podcast (Team Learning)
		Also available on iTunes
34	Unit B, Elements of Chemistry Module 2, Assignment 9	
		Catch Up Day! Use this day to catch up on earlier work or to catch your breath.
35	Unit B, Elements of Chemistry Module 3, Assignment 1	
		Study Sections: 4.1 - 4.4 (Videos + Textbook)
		Take corresponding video quizzes
36	Unit B, Elements of Chemistry Module 3, Assignment 2	
		Perform Activity: 08Rutherford.pdf
		Record your experience and observations in your field journal.
37	Unit B, Elements of Chemistry Module 3, Assignment 3	
		Play with PhET simulations: Rutherford and Build an Atom
		Take Module Reading Quiz
38	Unit B, Elements of Chemistry Module 3, Assignment 4	
		Download and work on Practice Pages from the Doc Share: CC5e04Pages1.pdf
39	Unit B, Elements of Chemistry Module 3, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 124: Answer 1, 5, 7, 9, 11.
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
40	Unit B, Elements of Chemistry Module 3, Assignment 6	
		Download and listen to episode 4B of the Big Picture Podcast (Subatomic Particles)
		Also available on iTunes
41	Unit B, Elements of Chemistry Module 4, Assignment 1	

		Study Sections: 4.5 - 4.7 (Videos + Textbook)
		Take corresponding video quizzes
42	Unit B, Elements of Chemistry Module 4, Assignment 2	
		Take Module Reading Quiz
		Answer correctly at least 7 questions from the Homework Practice Session (HPS)
43	Unit B, Elements of Chemistry Module 4, Assignment 3	
		Download and work on Practice Pages from the Doc Share: CC5e04Pages.pdf
44	Unit B, Elements of Chemistry Module 5, Assignment 1	
		Study Sections: 4.8 - 4.9 (Videos + Textbook)
		Take corresponding video quizzes
45	Unit B, Elements of Chemistry Module 5, Assignment 2	
		Take Module Reading Quiz
		Summary Challenge: Summarize the main points of Chapter 4 to some one. Then download and read the chapter summary document: CC5eSum04.pdf. Time and energy permitting, give a second performance of your summary.
46	Unit B, Elements of Chemistry Module 5, Assignment 3	
		Textbook End-of-Chapter Questions (In Writing): Page 126: Answer 39, 47, 49, 53.
		Textbook End-of-Chapter Questions (In Writing): Page 127: Answer 55, 57, 61, 65, 67, 71.
47	Unit B, Elements of Chemistry Module 5, Assignment 4	
		Download and listen to episode 4C of the Big Picture Podcast (The Quantum)
		Also available on iTunes
48	Unit B, Elements of Chemistry Module 5, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 127: Answer 73, 77, 79.
		Textbook End-of-Chapter Questions (In Writing): Page 128: Answer 81, 83, 85, 89, 93.
49	Unit B, Elements of Chemistry Module 5, Assignment 6	

		Answer correctly at least 7 questions from the Homework Practice Session (HPS)
50	Unit B, Elements of Chemistry Module 5, Assignment 7	
		For chapters 3 and 4 answer question numbers 5, 6, and 7 from each of the "Readiness Assurance Test" (RAT) sections.
		Look to the answer key in the "Authors Responses" document (available in first Doc Share of the course). If you got at least 4 out of 6 correct then you're ready for the unit exam.
		If you got less than 4 correct, then research the questions you got wrong and then take a break. Then answer questions number 2, 3, and 4 from these same RATs.
		Look to the answer key to see how you did. If you got at least 4 out of 6 correct, then you're ready for the unit exam.
		If you got less than 4 correct, then research the questions you got wrong. Congratulations. You're ready for the unit exam.
51	Unit B, Elements of Chemistry Module 5, Assignment 8	
		Take your second unit exam downloadable from the Doc Share of the FYI page. Ideally you'll be able to take this exam with others, including friends and family, as spelled out within the directions.
52	Unit C, Atomic Bonding, Module 1, Assignment 1	
		Study Sections: 5.1 - 5.4 (Videos + Textbook)
		Take corresponding video quizzes
53	Unit C, Atomic Bonding, Module 1, Assignment 2	
		Study Sections: 5.5 - 5.6 (Videos + Textbook)
		Take corresponding video quizzes
54	Unit C, Atomic Bonding, Module 1, Assignment 3	
		Perform Activity: 09HalfLife.pdf
		Record your experience and observations in your field journal.
55	Unit C, Atomic Bonding, Module 1, Assignment 4	
		Download and work on Practice Page worksheets from the Doc Share: CC5e05Pages.pdf
56	Unit C, Atomic Bonding, Module 1, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 155: Answer 1, 5, 7, 11, 15.



		Textbook End-of-Chapter Questions (In Writing): Page 156: Answer 37, 41, 43, 47.
		Textbook End-of-Chapter Questions (In Writing): Page 157: Answer 51, 55.
57	Unit C, Atomic Bonding, Module 1, Assignment 6	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
58	Unit C, Atomic Bonding, Module 2, Assignment 1	
		Study Section: 5.7 (Videos + Textbook)
		Take corresponding video quizzes
59	Unit C, Atomic Bonding, Module 2, Assignment 2	
		Study Section: 5.8 (Videos + Textbook)
		Take corresponding video quizzes
60	Unit C, Atomic Bonding, Module 2, Assignment 3	
		Study Section: 5.9 (Videos + Textbook)
		Take corresponding video quizzes
61	Unit C, Atomic Bonding, Module 2, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 157: Answer 57, 59, 61, 63, 65, 67, 69, 71, 73.
62	Unit C, Atomic Bonding, Module 2, Assignment 5	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
63	Unit C, Atomic Bonding, Module 2, Assignment 6	
		Study Contextual Chemistry (Doubling Time) essay in textbook: Pages 574 - 575. Record responses to Think and Discuss questions in your field journal. Compare your responses to that of the author.
		Note: Author responses to all Contextual Chemistry essays, Explain This, Connection Questions, and end-of-chapter RATS are available in the Doc Share of the first module FYI page.
64	Unit C, Atomic Bonding, Module 2, Assignment 7	

		Download and listen to episode 5A of the Big Picture Podcast (Visit to Rocky Flats)
		Also available on iTunes
65	Unit C, Atomic Bonding, Module 2, Assignment 8	
		Download and study "Thorium Reactors" document from the Doc Share.
66	Unit C, Atomic Bonding, Module 3, Assignment 1	
		Download and listen to episode 6B of the Big Picture Podcast (ionic bonding)
		Also available on iTunes
67	Unit C, Atomic Bonding, Module 3, Assignment 2	
		Study Sections: 6.1 - 6.2 (Videos + Textbook)
		Take corresponding video quizzes
68	Unit C, Atomic Bonding, Module 3, Assignment 3	
		Study Sections: 6.3 - 6.4 (Videos + Textbook)
		Take corresponding video quizzes
69	Unit C, Atomic Bonding, Module 3, Assignment 4	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
70	Unit C, Atomic Bonding, Module 3, Assignment 5	
		Download and work on Practice Page worksheets from the Doc Share: CC5e06Pages.pdf
71	Unit C, Atomic Bonding, Module 3, Assignment 6	
		Textbook End-of-Chapter Questions (In Writing): Page 188: Answer 3, 5, 9, 11.
72	Unit C, Atomic Bonding, Module 4, Assignment 1	
		Study Sections: 6.5 - 6.7 (Videos + Textbook)
		Take corresponding video quizzes
73	Unit C, Atomic Bonding, Module 4, Assignment 2	

		Play with PhET simulation: Molecule Shapes
		Take Module Reading Quiz
74	Unit C, Atomic Bonding, Module 4, Assignment 3	
		Textbook End-of-Chapter Questions (In Writing): Page 188: Answer 13, 15, 17, 19, 21.
		Textbook End-of-Chapter Questions (In Writing): Page 190: Answer 55, 57, 59, 61.
75	Unit C, Atomic Bonding, Module 4, Assignment 4	
		Textbook End-of-Chapter Questions (Activity): Page 188: Perform activities 27, 28. Record your experiences and observations in your field journal.
		Textbook End-of-Chapter Questions (In Writing): Page 189: Answer 37, 39, 43, 45, 49, 53.
76	Unit C, Atomic Bonding, Module 4, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 190: Answer 63, 65, 69, 71.
		Study Contextual Chemistry essay (Superfund) in textbook: Pages 192 - 193. Record responses to Think and Discuss questions in your field journal. Compare your responses to that of the author.
		Note: Author responses to all Contextual Chemistry essays, Explain This, Connection Questions, and end-of-chapter RATS are available in the Doc Share of the first module FYI page.
77	Unit C, Atomic Bonding, Module 4, Assignment 6	
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
78	Unit C, Atomic Bonding, Module 4, Assignment 7	
		For chapters 5 and 6 answer question numbers 3, 7, and 9 from each of the "Readiness Assurance Test" (RAT) sections.
		Look to the answer key in the "Authors Responses" document (available in first Doc Share of the course). If you got at least 4 out of 6 correct then you're ready for the unit exam.
		If you got less than 4 correct, then research the questions you got wrong and then take a break. Then answer questions number 2, 4, and 8 from these same RATs.
		Look to the answer key to see how you did. If you got at least 4 out of 6 correct, then you're ready for the unit exam.
		If you got less than 4 correct, then research the questions you got wrong. Congratulations. You're ready for the unit exam.

79	Unit C, Atomic Bonding, Module 4, Assignment 8	
		Take your third unit exam downloadable from the Doc Share of the FYI page. Ideally you'll be able to take this exam with others, including friends and family, as spelled out within the directions.
80	Unit D, Chemistry of Solutions, Module 1, Assignment 1	
		Study Sections: 6.8 and 7.1 (Videos + Textbook)
		Take corresponding video quizzes
81	Unit D, Chemistry of Solutions, Module 1, Assignment 2	
		Perform Activity: 10Marker.pdf
		Record your experience and observations in your field journal.
82	Unit D, Chemistry of Solutions, Module 1, Assignment 3	
		Take Module Reading Quiz
		Summary Challenge: Summarize the main points of Chapter 6 to some one. Then download and read the chapter summary document: CC5eSum06.pdf. Time and energy permitting, give a second performance of your summary.
83	Unit D, Chemistry of Solutions, Module 1, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 190: Answer 63, 65.
		Textbook End-of-Chapter Questions (In Writing): Page 222: Answer 35, 37, 39.
84	Unit D, Chemistry of Solutions, Module 1, Assignment 5	
		Download and work on Practice Page worksheets from the Doc Share: CC5e071Pages.pdf
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
85	Unit D, Chemistry of Solutions, Module 2, Assignment 1	
		Study Sections: 7.2 - 7.3 (Videos + Textbook)
		Take corresponding video quizzes
86	Unit D, Chemistry of Solutions, Module 2, Assignment 2	
		Study Sections: 7.4 - 7.7 (Videos + Textbook)
		Take corresponding video quizzes

87	Unit D, Chemistry of Solutions, Module 2, Assignment 3	
		Perform Activity: 11HowSweet.pdf
		Record your experience and observations in your field journal.
88	Unit D, Chemistry of Solutions, Module 2, Assignment 4	
		Download and work on Practice Page worksheets from the Doc Share: CC5e072Pages.pdf
89	Unit D, Chemistry of Solutions, Module 2, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 221: Answer 5, 7.
		Textbook End-of-Chapter Questions (Activity): Page 221: Activity 25. (Record experience and observations in field journal)
		Textbook End-of-Chapter Questions (In Writing): Page 222: Answer 41, 43, 45.
90	Unit D, Chemistry of Solutions, Module 2, Assignment 6	
		Perform Activity: 12SweetPurity.pdf
		Record your experience and observations in your field journal.
91	Unit D, Chemistry of Solutions, Module 2, Assignment 7	
		Take Module Reading Quiz
		Summary Challenge: Summarize the main points of Chapter 7 to some one. Then download and read the chapter summary document: CC5eSum07.pdf. Time and energy permitting, give a second performance of your summary.
92	Unit D, Chemistry of Solutions, Module 2, Assignment 8	
		Textbook End-of-Chapter Questions (In Writing): Page 223: Answer 47, 51, 55, 57, 59.
		Textbook End-of-Chapter Questions (In Writing): Page 224: Answer 61, 63.
93	Unit D, Chemistry of Solutions, Module 2, Assignment 9	
		Download and listen to episode 7B of the Big Picture Podcast (Solutions)
		Also available on iTunes
94	Unit D, Chemistry of Solutions, Module 3, Assignment 1	
		Download and listen to episode 8B of the Big Picture Podcast

		(Water, Part 1)
		Also available on iTunes
95	Unit D, Chemistry of Solutions, Module 3, Assignment 2	
		Study Sections: 8.1 - 8.2 (Videos + Textbook)
		Take corresponding video quizzes
96	Unit D, Chemistry of Solutions, Module 3, Assignment 3	
		Study Sections: 8.3 (Videos + Textbook)
		Take corresponding video quizzes
97	Unit D, Chemistry of Solutions, Module 3, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 254: Answer 35.
		Textbook End-of-Chapter Questions (In Writing): Page 255: Answer 41, 47, 49, 51, 55.
98	Unit D, Chemistry of Solutions, Module 3, Assignment 5	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
99	Unit D, Chemistry of Solutions, Module 4, Assignment 1	
		Download and listen to episode 8C of the Big Picture Podcast (Water, Part 2)
		Also available on iTunes
100	Unit D, Chemistry of Solutions, Module 4, Assignment 2	
		Study Sections: 8.4 - 8.5 (Videos + Textbook)
		Take corresponding video quizzes
101	Unit D, Chemistry of Solutions, Module 4, Assignment 3	
		Study Section: 8.6 (Videos + Textbook)
		Take corresponding video quizzes
102	Unit D, Chemistry of Solutions, Module 4, Assignment 4	
		Perform Activity: 13Oatmeal.pdf
		Record your experience and observations in your field journal.

103	Unit D, Chemistry of Solutions, Module 4, Assignment 5	
		Download and work on Practice Page worksheets from the Doc Share: CC5e08Pages.pdf (From previous module)
104	Unit D, Chemistry of Solutions, Module 4, Assignment 6	
		Textbook End-of-Chapter Questions (In Writing): Page 255: Answer 57, 59, 63, 65.
		Textbook End-of-Chapter Questions (In Writing): Page 256: Answer 67, 69, 71, 73.
105	Unit D, Chemistry of Solutions, Module 4, Assignment 7	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
106	Unit D, Chemistry of Solutions, Module 4, Assignment 8	
		Summary Challenge: Summarize the main points of this unit to some one. Then download and read the chapter summary document: CC5eSumLifeUnitC.pdf. Time and energy permitting, give a second performance of your summary.
107	Unit D, Chemistry of Solutions, Module 4, Assignment 9	
		For chapters 7 and 8 answer question numbers 4, 5 and 6 from each of the "Readiness Assurance Test" (RAT) sections.
		Look to the answer key in the "Authors Responses" document (available in first Doc Share of the course). If you got at least 4 out of 6 correct then you're ready for the unit exam.
		If you got less than 4 correct, then research the questions you got wrong and then take a break. Then answer questions number 1, 7 and 9 from these same RATs.
		Look to the answer key to see how you did. If you got at least 4 out of 6 correct, then you're ready for the unit exam.
		If you got less than 4 correct, then research the questions you got wrong. Congratulations. You're ready for the unit exam.
108	Unit D, Chemistry of Solutions, Module 4, Assignment 10	
		Take your fourth unit exam downloadable from the Doc Share of the FYI page. Ideally you'll be able to take this exam with others, including friends and family, as spelled out within the directions.
109	Unit E, Chemical Reactions, Module 1, Assignment 1	
		Study Section: 9.1 (Videos + Textbook)

		Take corresponding video quizzes
110	Unit E, Chemical Reactions, Module 1, Assignment 2	
		Textbook End-of-Chapter Questions (In Writing): Page 288: Answer 45.
		Textbook End-of-Chapter Questions (In Writing): Page 289: Answer 49, 51, 53.
111	Unit E, Chemical Reactions, Module 1, Assignment 3	
		Study Section: 9.2 (Videos + Textbook)
		Take corresponding video quizzes
112	Unit E, Chemical Reactions, Module 1, Assignment 4	
		Play with the PhET simulation: Balancing Equations
		Download and work on first few Practice Page worksheets: CC5e09Pages.pdf.
113	Unit E, Chemical Reactions, Module 1, Assignment 5	
		Perform Activity: 14MoleCookie.pdf
		Record your experience and observations in your field journal.
114	Unit E, Chemical Reactions, Module 1, Assignment 6	
		Take Module Reading Quiz
		Answer correctly at least 7 questions from the Homework Practice Session (HPS)
115	Unit E, Chemical Reactions, Module 2, Assignment 1	
		Study Section: 9.3 (Videos + Textbook)
		This includes the Calculation Corner, pages 268 - 269.
		Take corresponding video quizzes
116	Unit E, Chemical Reactions, Module 2, Assignment 2	
		Textbook End-of-Chapter Questions (In Writing): Page 288: Answer 31, 33, 35, 37.
		Textbook End-of-Chapter Questions (In Writing): Page 289: Answer 55, 57, 59, 61, 63.
117	Unit E, Chemical Reactions, Module 2, Assignment 3	
		Perform Activity: 15Candle.pdf



		Record your experience and observations in your field journal.
118	Unit E, Chemical Reactions, Module 2, Assignment 4	
		Take Module Reading Quiz
		Download and work on grams-to-moles Practice Page worksheets: CC5e09Pages.pdf.
119	Unit E, Chemical Reactions, Module 2, Assignment 5	
		Answer correctly at least 8 questions from the Homework Practice Session (HPS)
120	Unit E, Chemical Reactions, Module 2, Assignment 6	
		Catch Up Day! Use this day to catch up on earlier work or to catch your breath.
121	Unit E, Chemical Reactions, Module 3, Assignment 1	
		Study Sections: 9.4 - 9.5 (Videos + Textbook)
		Take corresponding video quizzes
122	Unit E, Chemical Reactions, Module 3, Assignment 2	
		Download and work on the Endo/Exo and Entropy Practice Page worksheets: CC5e09Pages.pdf.
123	Unit E, Chemical Reactions, Module 3, Assignment 3	
		Perform Activity: 18Entropy.pdf
		Record your experience and observations in your field journal.
124	Unit E, Chemical Reactions, Module 3, Assignment 4	
		Take Module Reading Quiz
		Answer correctly at least 7 questions from the Homework Practice Session (HPS)
125	Unit E, Chemical Reactions, Module 3, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 288: Answer 39, 43.
		Textbook End-of-Chapter Questions (In Writing): Page 289: Answer 65, 67, 69, 71, 73.
126	Unit E, Chemical Reactions, Module 4, Assignment 1	
		Study Sections: 9.6 - 9.7 (Videos + Textbook)

		Take corresponding video quizzes
127	Unit E, Chemical Reactions, Module 4, Assignment 2	
		Perform Activity: 16Kinetics.pdf
		Record your experience and observations in your field journal.
128	Unit E, Chemical Reactions, Module 4, Assignment 3	
		Textbook End-of-Chapter Questions (In Writing): Page 288: Answer 41.
		Textbook End-of-Chapter Questions (In Writing): Page 290: Answer 75, 77, 79, 81.
129	Unit E, Chemical Reactions, Module 4, Assignment 4	
		Perform Activity: 17Yeast.pdf
		Record your experience and observations in your field journal.
130	Unit E, Chemical Reactions, Module 4, Assignment 5	
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
131	Unit E, Chemical Reactions, Module 4, Assignment 6	
		Take Module Reading Quiz
		Summary Challenge: Summarize the main points of Chapter 9 to some one. Then download and read the chapter summary document: CC5eSum09.pdf. Time and energy permitting, give a second performance of your summary.
132	Unit E, Chemical Reactions, Module 4, Assignment 7	
		Textbook End-of-Chapter Questions (In Writing): Page 287: Answer 3, 7, 9, 15, 17, 21, 23.
133	Unit E, Chemical Reactions, Module 4, Assignment 8	
		Within your field journal, answer the "Explain This" questions appearing below the section headers of all chapter 9 sections.
		Note: Author responses to all Contextual Chemistry essays, Explain This, Connection Questions, and end-of-chapter RATS are available in the Doc Share of the first module FYI page.
134	Unit E, Chemical Reactions, Module 2, Assignment 9	
		Take your fifth unit exam downloadable from the Doc Share of the FYI page. Ideally you'll be able to take this exam with others, including friends and family, as spelled out within the

		directions.
135	Unit F, Acids, Bases, and Redox, Module 1, Assignment 1	
		Study Sections: 10.1 - 10.2 (Videos + Textbook)
		Take corresponding video quizzes
136	Unit F, Acids, Bases, and Redox, Module 1, Assignment 2	
		Study Section: 10.3 (Videos + Textbook)
		Take corresponding video quizzes
137	Unit F, Acids, Bases, and Redox, Module 1, Assignment 3	
		Play with PhET simulation: Acid-Base Solutions
		Take Module Reading Quiz
138	Unit F, Acids, Bases, and Redox, Module 1, Assignment 4	
		Perform Activity: 19AcidsBases.pdf
		Record your experience and observations in your field journal.
139	Unit F, Acids, Bases, and Redox, Module 1, Assignment 5	
		Download and work on Practice Page worksheets from the Doc Share: CC5e10Pages.pdf
140	Unit F, Acids, Bases, and Redox, Module 1, Assignment 6	
		Textbook End-of-Chapter Questions (In Writing): Page 316: Answer: 29, 33, 35, 37, 39.
		Textbook End-of-Chapter Questions (In Writing): Page 317: Answer: 43, 47, 49, 51, 55.
141	Unit F, Acids, Bases, and Redox, Module 1, Assignment 7	
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
142	Unit F, Acids, Bases, and Redox, Module 2, Assignment 1	
		Study Sections: 10.4 - 10.5 (Videos + Textbook)
		Take corresponding video quizzes
143	Unit F, Acids, Bases, and Redox, Module 2, Assignment 2	
		Textbook End-of-Chapter Questions (In Writing): Page 315: Answer: 11, 13, 15, 23, 25, 27.

		Textbook End-of-Chapter Questions (In Writing): Page 317: Answer: 57, 59, 61.
144	Unit F, Acids, Bases, and Redox, Module 2, Assignment 3	
		Study Contextual Chemistry essay (Mercury Emissions) in textbook: Pages 292 - 293. Record responses to Think and Discuss questions in your field journal. Compare your responses to that of the author.
		Note: Author responses to all Contextual Chemistry essays, Explain This, Connection Questions, and end-of-chapter RATS are available in the Doc Share of the first module FYI page.
145	Unit F, Acids, Bases, and Redox, Module 2, Assignment 4	
		Study Section: 10.6 (Videos + Textbook)
		Take corresponding video quizzes
146	Unit F, Acids, Bases, and Redox, Module 2, Assignment 5	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
147	Unit F, Acids, Bases, and Redox, Module 2, Assignment 6	
		Textbook End-of-Chapter Questions (In Writing): Page 315: Answer: 17, 19.
		Textbook End-of-Chapter Questions (In Writing): Page 318: Answer: 63, 65, 67, 69.
148	Unit F, Acids, Bases, and Redox, Module 3, Assignment 1	
		Study Sections: 11.1 - 11.3 (Videos + Textbook)
		Take corresponding video quizzes
149	Unit F, Acids, Bases, and Redox, Module 3, Assignment 2	
		Perform Activity: 20NotShock.pdf
		Record your experience and observations in your field journal.
150	Unit F, Acids, Bases, and Redox, Module 3, Assignment 3	
		Study Sections: 11.4 - 11.5 (Videos + Textbook)
		Take corresponding video quizzes
151	Unit F, Acids, Bases, and Redox, Module 3, Assignment 4	

		Download and work on Practice Page worksheets from the Doc Share: CC5e11Pages.pdf
152	Unit F, Acids, Bases, and Redox, Module 3, Assignment 5	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
153	Unit F, Acids, Bases, and Redox, Module 4, Assignment 1	
		Study Sections: 11.6 - 11.8 (Videos + Textbook)
		Take corresponding video quizzes
154	Unit F, Acids, Bases, and Redox, Module 4, Assignment 2	
		Perform Activity: 21SplittingWater.pdf
		Record your experience and observations in your field journal.
155	Unit F, Acids, Bases, and Redox, Module 4, Assignment 3	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
156	Unit F, Acids, Bases, and Redox, Module 4, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 346: Answer 1, 3, 9.
		Textbook End-of-Chapter Questions (In Writing): Page 348: Answer 35, 41.
		Textbook End-of-Chapter Questions (In Writing): Page 349: Answer 43, 49.
157	Unit F, Acids, Bases, and Redox, Module 4, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 349: Answer 55, 57, 69.
		Textbook End-of-Chapter Questions (In Writing): Page 350: Answer 65, 67, 71, 73, 75, 77.
158	Unit F, Acids, Bases, and Redox, Module 4, Assignment 6	
		Download and listen to episode 11A of the Big Picture Podcast (Solar Fuels)
		Also available on iTunes
159	Unit F, Acids, Bases, and Redox,	

	Module 4, Assignment 7	
		Take your sixth unit exam downloadable from the Doc Share of the FYI page. Ideally you'll be able to take this exam with others, including friends and family, as spelled out within the directions.
160	Unit G, Organic and Biochemistry, Module 1, Assignment 1	
		Study Sections: 12.1 - 12.3 (Videos + Textbook)
		Take corresponding video quizzes
161	Unit G, Organic and Biochemistry, Module 1, Assignment 2	
		Textbook End-of-Chapter Questions (In Writing): Page 287: Answer 13, 15, 17.
		Textbook End-of-Chapter Questions (In Writing): Page 288: Answer 39a, 39b, 43.
162	Unit G, Organic and Biochemistry, Module 1, Assignment 3	
		Perform Activity: 22Cinnamon.pdf
		Record your experience and observations in your field journal.
163	Unit G, Organic and Biochemistry, Module 1, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 289: Answer 65, 67, 69, 71.
		Textbook End-of-Chapter Questions (In Writing): Page 389: Answer 29, 37, 39, 41.
		Textbook End-of-Chapter Questions (In Writing): Page 390: Answer 43, 47a, 53.
164	Unit G, Organic and Biochemistry, Module 1, Assignment 5	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
165	Unit G, Organic and Biochemistry, Module 2, Assignment 1	
		Study Sections: 12.4 - 12.6 (Videos + Textbook)
		Take corresponding video quizzes
166	Unit G, Organic and Biochemistry, Module 2, Assignment 2	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework

		Practice Session (HPS)
167	Unit G, Organic and Biochemistry, Module 3, Assignment 1	
		Study Sections: 12.7 - 12.9 (Videos + Textbook)
		Take corresponding video quizzes
168	Unit G, Organic and Biochemistry, Module 3, Assignment 2	
		Within your field journal, answer the "Explain This" questions appearing below the section headers of all chapter 12 sections.
		Note: Author responses to all Contextual Chemistry essays, Explain This, Connection Questions, and end-of-chapter RATS are available in the Doc Share of the first module FYI page.
169	Unit G, Organic and Biochemistry, Module 3, Assignment 3	
		Perform Activity: 23Slime.pdf
		Record your experience and observations in your field journal.
170	Unit G, Organic and Biochemistry, Module 3, Assignment 4	
		Download and work on Practice Page worksheets from the Doc Share: CC5e12Pages.pdf (See Module G1)
171	Unit G, Organic and Biochemistry, Module 3, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 388: Answer: 11, 13, 17, 19, 21, 25.
		Textbook End-of-Chapter Questions (In Writing): Page 390: Answer: 57, 59, 61.
172	Unit G, Organic and Biochemistry, Module 3, Assignment 6	
		Textbook End-of-Chapter Questions (In Writing): Page 391: Answer: 63, 65, 67, 69, 71, 73.
		Textbook End-of-Chapter Questions (In Writing): Page 392: Answer: 77, 79.
173	Unit G, Organic and Biochemistry, Module 3, Assignment 7	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
174	Unit G, Organic and Biochemistry, Module 4, Assignment 1	
		Study Sections: 13.1 - 13.3 (Videos + Textbook)

		Take corresponding video quizzes
175	Unit G, Organic and Biochemistry, Module 4, Assignment 2	
		Perform Activity: 24PolarizedSugar.pdf
		Record your experience and observations in your field journal.
176	Unit G, Organic and Biochemistry, Module 4, Assignment 3	
		Download and work on Practice Page worksheets from the Doc Share: CC5e13Pages.pdf
177	Unit G, Organic and Biochemistry, Module 4, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 432: Answer: 1, 3, 5, 7, 9.
		Textbook End-of-Chapter Questions (Activity): Page 432: Activities 26, 27. Record in your field journal.
178	Unit G, Organic and Biochemistry, Module 4, Assignment 5	
		Textbook End-of-Chapter Questions (In Writing): Page 433: Answer: 33, 35, 37, 39, 41, 43.
179	Unit G, Organic and Biochemistry, Module 4, Assignment 6	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
180	Unit G, Organic and Biochemistry, Module 5, Assignment 1	
		Study Sections: 13.4 - 13.5 (Videos + Textbook)
		Take corresponding video quizzes
181	Unit G, Organic and Biochemistry, Module 5, Assignment 2	
		Perform Activity: 25DNA.pdf
		Record your experience and observations in your field journal.
		Video Share: Watch CRISPR video
182	Unit G, Organic and Biochemistry, Module 5, Assignment 3	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
183	Unit G, Organic and Biochemistry,	



	Module 5, Assignment 4	
		Textbook End-of-Chapter Questions (In Writing): Page 432: Answer: 11, 13, 15, 17.
		Textbook End-of-Chapter Questions (In Writing): Page 433: Answer: 45, 47, 49, 53.
184	Unit G, Organic and Biochemistry, Module 6, Assignment 1	
		Study Sections: 13.6 - 13.8 (Videos + Textbook)
		Take corresponding video quizzes
185	Unit G, Organic and Biochemistry, Module 6, Assignment 2	
		Take Module Reading Quiz
		Answer correctly at least 10 questions from the Homework Practice Session (HPS)
186	Unit G, Organic and Biochemistry, Module 6, Assignment 3	
		Textbook End-of-Chapter Questions (In Writing): Page 432: Answer: 19, 21, 23, 25.
		Textbook End-of-Chapter Questions (In Writing): Page 434: Answer: 55, 57, 59, 61, 63, 65, 67, 69.
187	Unit G, Organic and Biochemistry, Module 6, Assignment 4	
		Summary Challenge: Summarize the main points of Chapters 12 and 13 to some one. Then download and read the chapter summary document: CC5eSum1213.pdf. Time and energy permitting, give a second performance of your summary.
188	Unit G, Organic and Biochemistry, Module 6, Assignment 5	
		Congratulations for your great learning efforts!
		Having made it through this material you are well suited to digging deeper into the wonders to this natural universe in which we are blessed to live.
		But for now, download the certificate of completion you'll find in the Doc Share. Print it out and have it signed by your mentor.
		Post this certificate as a mark of your achievement.
		Then toss this certificate into the recycle bin in recognition that your real achievement lies inside of you.

