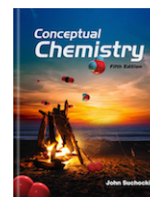




Conceptual Chemistry, Life Science

Lesson Planner

One Year, Life Science Chemistry



For an automated calendar using this same information, visit HomeschoolPlanet.com

| Day | Module Assignments | Action Items |
|-----|---|--|
| 1 | Unit A, Elements of Chemistry, Module 1, Assignment 1 | |
| | | Note: This planner is specific to the fifth edition of Conceptual Chemistry, CC5e. |
| | | After purchasing your "Conceptual Chemistry, Life Science" 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, Elements of Chemistry, 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, Elements of Chemistry, 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, Elements of Chemistry, Module 1, Assignment 4 | |
| | | Study Sections: 1.3 - 1.5 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 5 | Unit A, Elements of Chemistry, 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, Elements of Chemistry, 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, Elements of Chemistry, 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, Elements of Chemistry, Module 1, Assignment 8 | |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 9 | Unit A, Elements of Chemistry, 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 ConceptualScience.com |
| 10 | Unit A, Elements of Chemistry, Module 2, Assignment 1 | |
| | | Study Sections: 2.1 - 2.5 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| | | Take Module Reading Quiz |
| 11 | Unit A, Elements of Chemistry, 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, Elements of Chemistry, 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, Elements of Chemistry, Module 3, Assignment 1 | |
| | | Study Sections: 2.6 - 2.7 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| | | Take Module Reading Quiz |
| 14 | Unit A, Elements of Chemistry, 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, Elements of Chemistry, 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, Elements of Chemistry, Module 3, Assignment 4 | |
| | | Study Section: 2.8 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| | | Take Module Reading Quiz |
| 17 | Unit A, Elements of Chemistry, Module 3, Assignment 5 | |
| | | Perform Activity: 05GasLaws.pdf |
| | | Record your experience and observations in your field journal. |
| 18 | Unit A, Elements of Chemistry, Module 3, Assignment 6 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 53: Answer 73, 75, 77, 79, 81. |
| 19 | Unit A, Elements of Chemistry, Module 3, Assignment 7 | |
| | | 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, Elements of Chemistry, Module 3, Assignment 8 | |
| | | Download and listen to the second episode of the Big Picture Podcast |

| | | |
|----|--|---|
| | | (Frames) |
| | | Also available on iTunes |
| 21 | Unit A, Elements of Chemistry, Module 3, Assignment 9 | |
| | | Study Sections: 3.1 - 3.4 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 22 | Unit A, Elements of Chemistry, Module 4, Assignment 1 | |
| | | Perform Activity: 06Matter.pdf |
| | | See Doc Share to download the PDF |
| | | Record your experience and observations in your field journal. |
| 23 | Unit A, Elements of Chemistry, Module 4, Assignment 2 | |
| | | Download and work on Practice Pages from the Doc Share: CC5e03Pages.pdf |
| | | Take Module Reading Quiz |
| 24 | Unit A, Elements of Chemistry, Module 4, Assignment 3 | |
| | | 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) |
| 25 | Unit A, Elements of Chemistry, Module 4, Assignment 4 | |
| | | Catch Up Day! Use this day to catch up on earlier work or to catch your breath. |
| 26 | Unit A, Elements of Chemistry, Module 5, Assignment 1 | |
| | | Study Sections: 3.5 - 3.6 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 27 | Unit A, Elements of Chemistry, Module 5, Assignment 2 | |
| | | Study Sections: 3.7 - 3.8 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 28 | Unit A, Elements of Chemistry, Module 5, 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 A, Elements of Chemistry, Module 5, 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 A, Elements of Chemistry, Module 5, Assignment 5 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 7 questions from the Homework Practice Session (HPS) |
| 31 | Unit A, Elements of Chemistry, Module 5, 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 A, Elements of Chemistry, Module 5, 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 A, Elements of Chemistry, Module 5, Assignment 8 | |
| | | Download and listen to the third episode of the Big Picture Podcast (Team Learning) |
| | | Also available on iTunes |
| 34 | Unit A, Elements of Chemistry, Module 5, 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. |
| 35 | Unit B, Atomic Bonding, Module 1, Assignment 1 | |
| | | Study Sections: 4.1 - 4.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 36 | Unit B, Atomic Bonding, Module 1, Assignment 2 | |
| | | Perform Activity: 08Rutherford.pdf |
| | | Record your experience and observations in your field journal. |
| 37 | Unit B, Atomic Bonding, Module 1, Assignment 3 | |
| | | Study Sections: 4.4 - 4.6 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 38 | Unit B, Atomic Bonding, Module 1, Assignment 4 | |
| | | Play with PhET simulations: Rutherford and Build an Atom |

| | | |
|----|--|--|
| | | Take Module Reading Quiz |
| 39 | Unit B, Atomic Bonding, Module 1, Assignment 5 | |
| | | Download and work on Practice Pages from the Doc Share: CC5e04Pages1.pdf |
| 40 | Unit B, Atomic Bonding, Module 1, Assignment 6 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 124: Answer 1, 5, 7, 9, 11, 13. |
| 41 | Unit B, Atomic Bonding, Module 1, Assignment 7 | |
| | | Download and listen to episode 4B of the Big Picture Podcast (Subatomic Particles) |
| | | Also available on iTunes |
| 42 | Unit B, Atomic Bonding, Module 1, Assignment 8 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 43 | Unit B, Atomic Bonding, Module 1, Assignment 9 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 126: Answer 47, 49, 53. |
| | | Textbook End-of-Chapter Questions (In Writing): Page 127: Answer 55, 57, 61, 65. |
| 44 | Unit B, Atomic Bonding, Module 2, Assignment 1 | |
| | | Study Sections: 5.1 - 5.4 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 45 | Unit B, Atomic Bonding, Module 2, Assignment 1 | |
| | | Study Sections: 5.5 - 5.6 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 46 | Unit B, Atomic Bonding, Module 2, Assignment 1 | |
| | | Perform Activity: 09HalfLife.pdf |
| | | Record your experience and observations in your field journal. |
| 47 | Unit B, Atomic Bonding, Module 2, Assignment 1 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e05Pages.pdf |
| 48 | Unit B, Atomic Bonding, Module 2, Assignment 1 | |
| | | 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. |
| 49 | Unit B, Atomic Bonding, Module 2, Assignment 1 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 50 | Unit B, Atomic Bonding, Module 2, Assignment 1 | |
| | | Download and listen to episode 5A of the Big Picture Podcast (Visit to Rocky Flats) |
| | | Also available on iTunes |
| 51 | Unit B, Atomic Bonding, Module 3, Assignment 1 | |
| | | Download and listen to episode 6B of the Big Picture Podcast (ionic bonding) |
| | | Also available on iTunes |
| 52 | Unit B, Atomic Bonding, Module 3, Assignment 1 | |
| | | Study Sections: 6.1 - 6.2 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 53 | Unit B, Atomic Bonding, Module 3, Assignment 1 | |
| | | Study Sections: 6.3 - 6.4 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 54 | Unit B, Atomic Bonding, Module 3, Assignment 1 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 55 | Unit B, Atomic Bonding, Module 3, Assignment 1 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e06Pages.pdf |
| 56 | Unit B, Atomic Bonding, Module 3, Assignment 1 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 188: Answer 3, 5, 9, 11. |
| 57 | Unit B, Atomic Bonding, Module 4, Assignment 1 | |
| | | Study Sections: 6.5 - 6.7 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 58 | Unit B, Atomic Bonding, Module 4, Assignment 2 | |

| | | |
|----|---|---|
| | | Play with PhET simulation: Molecule Shapes |
| | | Take Module Reading Quiz |
| 59 | Unit B, 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. |
| 60 | Unit B, 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. |
| 61 | Unit B, 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. |
| 62 | Unit B, Atomic Bonding, Module 4, Assignment 6 | |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 63 | Unit B, Atomic Bonding, Module 4, Assignment 7 | |
| | | For chapters 4, 5, and 6 answer question numbers 1 and 2 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 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. |
| 64 | Unit B, Atomic Bonding, Module 4, 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. |

| | | |
|----|--|---|
| 65 | Unit C, Chemistry of Solutions, Module 1, Assignment 1 | |
| | | Study Sections: 6.8 and 7.1 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 66 | Unit C, Chemistry of Solutions, Module 1, Assignment 2 | |
| | | Perform Activity: 10Marker.pdf |
| | | Record your experience and observations in your field journal. |
| 67 | Unit C, 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. |
| 68 | Unit C, 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. |
| 69 | Unit C, 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) |
| 70 | Unit C, Chemistry of Solutions, Module 2, Assignment 1 | |
| | | Study Sections: 7.2 - 7.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 71 | Unit C, Chemistry of Solutions, Module 2, Assignment 2 | |
| | | Study Sections: 7.4 - 7.7 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 72 | Unit C, Chemistry of Solutions, Module 2, Assignment 3 | |
| | | Perform Activity: 11HowSweet.pdf |
| | | Record your experience and observations in your field journal. |
| 73 | Unit C, Chemistry of Solutions, Module 2, Assignment 4 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e072Pages.pdf |
| 74 | Unit C, 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. |
| 75 | Unit C, Chemistry of Solutions, Module 2, Assignment 6 | |
| | | Perform Activity: 12SweetPurity.pdf |
| | | Record your experience and observations in your field journal. |
| 76 | Unit C, 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. |
| 77 | Unit C, 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. |
| 78 | Unit C, Chemistry of Solutions, Module 2, Assignment 9 | |
| | | Download and listen to episode 7B of the Big Picture Podcast (Solutions) |
| | | Also available on iTunes |
| 79 | Unit C, 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 |
| 80 | Unit C, Chemistry of Solutions, Module 3, Assignment 2 | |
| | | Study Sections: 8.1 - 8.2 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 81 | Unit C, Chemistry of Solutions, Module 3, Assignment 3 | |
| | | Study Sections: 8.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 82 | Unit C, 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. |

| | | |
|----|--|--|
| 83 | Unit C, Chemistry of Solutions, Module 3, Assignment 5 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 84 | Unit C, 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 |
| 85 | Unit C, Chemistry of Solutions, Module 4, Assignment 2 | |
| | | Study Sections: 8.4 - 8.5 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 86 | Unit C, Chemistry of Solutions, Module 4, Assignment 3 | |
| | | Study Section: 8.6 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 87 | Unit C, Chemistry of Solutions, Module 4, Assignment 4 | |
| | | Perform Activity: 13Oatmeal.pdf |
| | | Record your experience and observations in your field journal. |
| 88 | Unit C, Chemistry of Solutions, Module 4, Assignment 5 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e08Pages.pdf (From previous module) |
| 89 | Unit C, 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. |
| 90 | Unit C, Chemistry of Solutions, Module 4, Assignment 7 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 91 | Unit C, 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. |
| 92 | Unit C, 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. |
| 93 | Unit C, Chemistry of Solutions, Module 4, Assignment 10 | |
| | | 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. |
| 94 | Unit D, Chemical Reactions, Module 1, Assignment 1 | |
| | | Study Section: 9.1 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 95 | Unit D, 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. |
| 96 | Unit D, Chemical Reactions, Module 1, Assignment 3 | |
| | | Study Section: 9.2 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 97 | Unit D, Chemical Reactions, Module 1, Assignment 4 | |
| | | Play with the PhET simulation: Balancing Equations |
| | | Download and work on first few Practice Page worksheets: CC5e09Pages.pdf. |
| 98 | Unit D, Chemical Reactions, Module 1, Assignment 5 | |
| | | Perform Activity: 14MoleCookie.pdf |
| | | Record your experience and observations in your field journal. |
| 99 | Unit D, Chemical Reactions, Module 1, Assignment 6 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 7 questions from the Homework Practice Session (HPS) |
| 100 | Unit D, Chemical Reactions, Module 2, Assignment 1 | |
| | | Study Section: 9.3 (Videos + Textbook) |

| | | |
|-----|--|--|
| | | This includes the Calculation Corner, pages 268 - 269. |
| | | Take corresponding video quizzes |
| 101 | Unit D, 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. |
| 102 | Unit D, Chemical Reactions, Module 2, Assignment 3 | |
| | | Perform Activity: 15Candle.pdf |
| | | Record your experience and observations in your field journal. |
| 103 | Unit D, Chemical Reactions, Module 2, Assignment 4 | |
| | | Take Module Reading Quiz |
| | | Download and work on grams-to-moles Practice Page worksheets: CC5e09Pages.pdf. |
| 104 | Unit D, Chemical Reactions, Module 2, Assignment 5 | |
| | | Answer correctly at least 8 questions from the Homework Practice Session (HPS) |
| 105 | Unit D, Chemical Reactions, Module 2, Assignment 6 | |
| | | Catch Up Day! Use this day to catch up on earlier work or to catch your breath. |
| 106 | Unit D, Chemical Reactions, Module 3, Assignment 1 | |
| | | Study Sections: 9.4 - 9.5 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 107 | Unit D, Chemical Reactions, Module 3, Assignment 2 | |
| | | Download and work on the Endo/Exo and Entropy Practice Page worksheets: CC5e09Pages.pdf. |
| 108 | Unit D, Chemical Reactions, Module 3, Assignment 3 | |
| | | Perform Activity: 18Entropy.pdf |
| | | Record your experience and observations in your field journal. |
| 109 | Unit D, Chemical Reactions, Module 3, Assignment 4 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 7 questions from the Homework Practice Session (HPS) |
| 110 | Unit D, 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. |
| 111 | Unit D, Chemical Reactions, Module 4, Assignment 1 | |
| | | Study Sections: 9.6 - 9.7 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 112 | Unit D, Chemical Reactions, Module 4, Assignment 2 | |
| | | Perform Activity: 16Kinetics.pdf |
| | | Record your experience and observations in your field journal. |
| 113 | Unit D, 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. |
| 114 | Unit D, Chemical Reactions, Module 4, Assignment 4 | |
| | | Perform Activity: 17Yeast.pdf |
| | | Record your experience and observations in your field journal. |
| 115 | Unit D, Chemical Reactions, Module 4, Assignment 5 | |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 116 | Unit D, 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. |
| 117 | Unit D, Chemical Reactions, Module 4, Assignment 7 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 287: Answer 3, 7, 9, 15, 17, 21, 23. |
| 118 | Unit D, 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. |
| 119 | Unit D, 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. |
| 120 | Unit E, Acids, Bases, and Redox, Module 1, Assignment 1 | |

| | | |
|-----|---|---|
| | | Study Sections: 10.1 - 10.2 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 121 | Unit E, Acids, Bases, and Redox, Module 1, Assignment 2 | |
| | | Study Section: 10.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 122 | Unit E, Acids, Bases, and Redox, Module 1, Assignment 3 | |
| | | Play with PhET simulation: Acid-Base Solutions |
| | | Take Module Reading Quiz |
| 123 | Unit E, Acids, Bases, and Redox, Module 1, Assignment 4 | |
| | | Perform Activity: 19AcidsBases.pdf |
| | | Record your experience and observations in your field journal. |
| 124 | Unit E, Acids, Bases, and Redox, Module 1, Assignment 5 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e10Pages.pdf |
| 125 | Unit E, 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. |
| 126 | Unit E, Acids, Bases, and Redox, Module 1, Assignment 7 | |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 127 | Unit E, Acids, Bases, and Redox, Module 2, Assignment 1 | |
| | | Study Sections: 10.4 - 10.5 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 128 | Unit E, 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. |
| 129 | Unit E, 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. |

| | | |
|-----|---|---|
| 130 | Unit E, Acids, Bases, and Redox, Module 2, Assignment 4 | |
| | | Study Section: 10.6 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 131 | Unit E, Acids, Bases, and Redox, Module 2, Assignment 5 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 132 | Unit E, 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. |
| 133 | Unit E, Acids, Bases, and Redox, Module 3, Assignment 1 | |
| | | Study Sections: 11.1 - 11.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 134 | Unit E, Acids, Bases, and Redox, Module 3, Assignment 2 | |
| | | Perform Activity: 20NotShock.pdf |
| | | Record your experience and observations in your field journal. |
| 135 | Unit E, Acids, Bases, and Redox, Module 3, Assignment 3 | |
| | | Study Sections: 11.4 - 11.5 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 136 | Unit E, Acids, Bases, and Redox, Module 3, Assignment 4 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e11Pages.pdf |
| 137 | Unit E, Acids, Bases, and Redox, Module 3, Assignment 5 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 138 | Unit E, Acids, Bases, and Redox, Module 4, Assignment 1 | |
| | | Study Sections: 11.6 - 11.8 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 139 | Unit E, Acids, Bases, and Redox, Module 4, Assignment 2 | |
| | | Perform Activity: 21SplittingWater.pdf |
| | | Record your experience and observations in your field journal. |

| | | |
|-----|--|--|
| 140 | Unit E, Acids, Bases, and Redox, Module 4, Assignment 3 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 141 | Unit E, 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. |
| 142 | Unit E, 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. |
| 143 | Unit E, 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 |
| 144 | Unit E, Acids, Bases, and Redox, Module 4, Assignment 7 | |
| | | 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. |
| 145 | Unit F, Organic and Biochemistry, Module 1, Assignment 1 | |
| | | Study Sections: 12.1 - 12.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 146 | Unit F, 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. |
| 147 | Unit F, Organic and Biochemistry, Module 1, Assignment 3 | |
| | | Perform Activity: 22Cinnamon.pdf |
| | | Record your experience and observations in your field journal. |
| 148 | Unit F, 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. |
| 149 | Unit F, Organic and Biochemistry, Module 1, Assignment 5 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 150 | Unit F, Organic and Biochemistry, Module 2, Assignment 1 | |
| | | Study Sections: 12.4 - 12.6 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 151 | Unit F, Organic and Biochemistry, Module 2, Assignment 2 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 152 | Unit F, Organic and Biochemistry, Module 3, Assignment 1 | |
| | | Study Sections: 12.7 - 12.8 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 153 | Unit F, 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. |
| 154 | Unit F, Organic and Biochemistry, Module 3, Assignment 3 | |
| | | Perform Activity: 23Slime.pdf |
| | | Record your experience and observations in your field journal. |
| 155 | Unit F, Organic and Biochemistry, Module 3, Assignment 4 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e12Pages.pdf (See Module F1) |
| 156 | Unit F, Organic and Biochemistry, Module 3, Assignment 5 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 388: Answer: 11, 13, 17, 19, 21. |
| | | Textbook End-of-Chapter Questions (In Writing): Page 390: Answer: 57, 59, 61. |
| 157 | Unit F, 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. |
| 158 | Unit F, Organic and Biochemistry, Module 3, Assignment 7 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 159 | Unit F, Organic and Biochemistry, Module 4, Assignment 1 | |
| | | Study Sections: 13.1 - 13.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 160 | Unit F, Organic and Biochemistry, Module 4, Assignment 2 | |
| | | Perform Activity: 24PolarizedSugar.pdf |
| | | Record your experience and observations in your field journal. |
| 161 | Unit F, Organic and Biochemistry, Module 4, Assignment 3 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e13Pages.pdf |
| 162 | Unit F, 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. |
| 163 | Unit F, Organic and Biochemistry, Module 4, Assignment 5 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 433: Answer: 33, 35, 37, 39, 41, 43. |
| 164 | Unit F, Organic and Biochemistry, Module 4, Assignment 6 | |
| | | Study Contextual Chemistry essay (Hydrogenation) in textbook: Pages 436 - 437. 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. |
| 165 | Unit F, Organic and Biochemistry, Module 4, Assignment 7 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 166 | Unit F, Organic and Biochemistry, Module 5, Assignment 1 | |
| | | Study Sections: 13.4 - 13.5 (Videos + Textbook) |

| | | |
|-----|--|--|
| | | Take corresponding video quizzes |
| 167 | Unit F, 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 |
| 168 | Unit F, Organic and Biochemistry, Module 5, Assignment 3 | |
| | | Study Contextual Chemistry essay (Skin Care) in textbook: Pages 494 - 495. 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. |
| 169 | Unit F, Organic and Biochemistry, Module 5, Assignment 4 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 170 | Unit F, Organic and Biochemistry, Module 5, Assignment 5 | |
| | | 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. |
| 171 | Unit F, Organic and Biochemistry, Module 5, Assignment 6 | |
| | | Summary Challenge: Summarize the main points of Sections 13.1 - 13.5 to some one. Then download and read the chapter summary document: CC5eSum13.pdf. Time and energy permitting, give a second performance of your summary. |
| 172 | Unit F, Organic and Biochemistry, Module 5, 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. |
| 173 | Unit G, Food and Drugs, Module 1, Assignment 1 | |
| | | Study Sections: 13.6 - 13.8 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 174 | Unit G, Food and Drugs, Module 1, Assignment 2 | |
| | | Study Contextual Chemistry essay (GMOs) in textbook: Pages 506 - 507. 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. |

| | | |
|-----|---|---|
| 175 | Unit G, Food and Drugs, Module 1, Assignment 3 | |
| | | Study Sections: 15.1 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 176 | Unit G, Food and Drugs, Module 1, Assignment 4 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 177 | Unit G, Food and Drugs, Module 1, Assignment 5 | |
| | | 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. |
| 178 | Unit G, Food and Drugs, Module 2, Assignment 1 | |
| | | Study Sections: 14.1 - 14.3 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 179 | Unit G, Food and Drugs, Module 2, Assignment 2 | |
| | | Download and work on Practice Page worksheets from the Doc Share: CC5e14Pages.pdf |
| 180 | Unit G, Food and Drugs, Module 2, Assignment 3 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 181 | Unit G, Food and Drugs, Module 2, Assignment 4 | |
| | | Study Contextual Chemistry essay (Water Fluoridation) in textbook: Pages 226 - 227. Record responses to five 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. |
| 182 | Unit G, Food and Drugs, Module 2, Assignment 5 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 472: Answer: 1, 3, 5, 7, 9. |
| | | Textbook End-of-Chapter Questions (Activity): Page 473: Activity: 25. Record your experience and observations in your field journal. |
| 183 | Unit G, Food and Drugs, Module 2, Assignment 6 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 473: Answer: 27, 31, 33. |
| | | Textbook End-of-Chapter Questions (In Writing): Page 474: Answer: 35, |

| | | |
|-----|---|---|
| | | 37, 39, 41, 43, 45. |
| 184 | Unit G, Food and Drugs, Module 3, Assignment 1 | |
| | | Study Sections: 14.4 - 14.5 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 185 | Unit G, Food and Drugs, Module 3, Assignment 2 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 186 | Unit G, Food and Drugs, Module 3, Assignment 3 | |
| | | Study Contextual Chemistry essay (Genetics of Muscle Fitness) in textbook: Pages 476 - 477. Record responses to five 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. |
| 187 | Unit G, Food and Drugs, Module 4, Assignment 1 | |
| | | Study Sections: 14.6 - 14.7 (Videos + Textbook) |
| | | Take corresponding video quizzes |
| 188 | Unit G, Food and Drugs, Module 4, Assignment 2 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 473: Answer: 11, 13, 15, 17, 19, 21, 23. |
| 189 | Unit G, Food and Drugs, Module 4, Assignment 3 | |
| | | Textbook End-of-Chapter Questions (In Writing): Page 474: Answer: 46, 49, 51, 53, 61, 65, 67, 69. |
| 190 | Unit G, Food and Drugs, Module 4, Assignment 4 | |
| | | Take Module Reading Quiz |
| | | Answer correctly at least 10 questions from the Homework Practice Session (HPS) |
| 191 | Unit G, Food and Drugs, Module 4, Assignment 5 | |
| | | Summary Challenge: Summarize the main points of Chapter 14 to some one. Then download and read the chapter summary document: CC5eSum14.pdf. Time and energy permitting, give a second performance of your summary. |
| 192 | Unit G, Food and Drugs, Module 4, Assignment 6 | |
| | | Within your field journal, answer the "Explain This" questions appearing below the section headers of all chapter 14 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. |
| 193 | Unit G, Food and Drugs, 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. |
| 194 | Unit G, Food and Drugs, Module 4, Assignment 8 | |
| | | 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. |