Chemistry End-of-Year Capstone Review

Review your notes. Confirm you have a reasonable-level of understanding for each topic listed here. If the final exam is open notes, confirm you have evidence of your participation with each topic listed. For any topics where you either have an inadequate grasp of the concepts – or for which you do not have personal copies of notes and topic artifacts – revisit those topics and make improvements.

- ☐ Chemistry 11 Welcome to Chemistry
- ☐ Chemistry 12 Nature of Matter
- ☐ Chemistry 13 Properties of Matter
- ☐ Chemistry 14 The Elements
- ☐ Chemistry 15 Using the Periodic Table
- ☐ Chemistry 16 Naming Binary Compounds
- ☐ Chemistry 17 Naming and Writing Formulas
- ☐ Chemistry 18 Scientific Notation and Units
- ☐ Chemistry 19 Atoms and Moles
- ☐ Chemistry 21 Formulas of Compounds
- ☐ Chemistry 22 Evidence for Chemical Reaction
- ☐ Chemistry 23 Reactions in Aqueous Solutions
- ☐ Chemistry 24 Classifying Reactions
- ☐ Chemistry 25 Using Chemical Equations
- ☐ Chemistry 26 Limiting Reactants and Percent Yield
- ☐ Chemistry 27 Energy Temperature and Heat
- ☐ Chemistry 28 Using Energy in the Real World
- ☐ Chemistry 31 Atoms and Energy
- ☐ Chemistry 32 Atomic Orbitals
- ☐ Chemistry 33 Characteristics of Chemical Bonds
- ☐ Chemistry 34 Lewis Structures
- ☐ Chemistry 35 Describing the Properties of Gases
- ☐ Chemistry 36 Using Gas Laws to Solve Problems
- ☐ Chemistry 37 Using a Model to Describe Gases
- ☐ Chemistry 38 Forces and Phase Changes
- ☐ Chemistry 39 Vapor Pressure and Boiling Point
- ☐ Chemistry 41 Properties of Solids
- ☐ Chemistry 42 Student Research (Solutions)
- ☐ Chemistry 43 Solution Composition and Properties
- ☐ Chemistry 44 Plasma Gas Liquid Solid (Not)
- ☐ Chemistry 45 Acids and Bases
- ☐ Chemistry 46 Equilibrium
- ☐ Chemistry 47 Oxidation-Reduction Reactions
- ☐ Chemistry 48 Organic Chemistry

Below, find a list of Techniques and Activities which may have been covered during this curriculum (many of these may not have been explicitly covered as a stand-alone topic). For those listed that were covered in class as a topic, confirm you have a sufficient grasp of the major concepts and that you have a solid set of accompanying notes.

Use Diagrams/Models to Convey Science Info

- ☐ Activity 20 Venn Diagrams & Relationship
- ☐ Activity 21 Hierarchy and Pyramid
- ☐ Activity 22 Process and Cycle
- ☐ Activity 23 Matrix and List

Techniques for the General Classroom and Science

- ☐ Technique 10 How to Read Complex Text
- ☐ Technique 11 How to Summarize Information
- ☐ Technique 12 The Scientific Method
- ☐ Technique 13 21st Century (4Cs)
- ☐ Technique 14 Critical Thinking
- ☐ Technique 15 Creative Concepts
- ☐ Technique 16 Collaboration
- ☐ Technique 17 Communication
- ☐ Technique 18 Debate in the Classroom
- ☐ Technique 19 Personal Reflection
- ☐ Technique 20 Lab Measure and Convert
- ☐ Technique 21 Devise Experiments
- ☐ Technique 22 Data Gathering
- ☐ Technique 23 Graphing and Charting Data
- ☐ Technique 24 Interpret Results
- ☐ Technique 25 Use and Care of Equipment
- ☐ Technique 26 Lab Safety
- ☐ Technique 27 Lab Procedures

(continued)

- ☐ Technique 27 Lab Procedures
- ☐ Technique 30 Recognizing Phenomena
- ☐ Technique 31 Evaluating Phenomena
- ☐ Technique 32 Making Connections
- ☐ Technique 70 Overview
- ☐ Technique 71 Two/Three-Circle Venn
- ☐ Technique 72 Scale/Timeline
- ☐ Technique 73 Thought Web
- ☐ Technique 74 Cluster
- ☐ Technique 75 Fact vs. Opinion
- ☐ Technique 76 Pros-Cons
- ☐ Technique 77 Five W's
- ☐ Technique 78 Flowchart/Cycle
- ☐ Technique 79 KWL/KWHL

