|  |  |  |  |
| --- | --- | --- | --- |
| **Classes/date** | **9th - Physical Science** | **10th - Biology** | **11th Chemistry** |
| Monday, March 23 | **WHAT IS SCIENCE?** | What is Life? | Scientific Method |
| Tuesday, March 24 | **THE SCIENTIFIC METHOD** | Introduction to Biology | Lab Safety |
| Wednesday, March 25 | **EXPERIMENT: MAKING OBSERVATIONS** | Project: Characteristics of Life | An Introduction to Chemistry and Metric Measurement |
| Thursday, March 26 | **QUIZ 1: NATURE OF SCIENCE** | Project: Characteristics of Life  \*NOTE: Continued from Wednesday, 3/25 | An Introduction to Chemistry and Metric Measurement  \*NOTE: Continued from Wednesday, 3/25 |
| Friday, March 27 | **THE METRIC SYSTEM** | Project: Characteristics of Life  \*NOTE: Continued from Thursday, 3/26 | Quiz 1: Metric Conversions |
| Monday, March 30 | **SCALES** | Quiz 1: Life Science | Showing Precision in Measurements |
| Tuesday, March 31 | **VOLUME** | Scientific Inquiry | Using Sig Figs to Show the Reliability of Data |
| Wednesday, April 1 | **Experiment: Determining Volume** | **Scientific Inquiry** | Using Scientific Notation with Sig Figures and Quiz 2 |
| Thursday, April 2 | **Mass and Density** | **The Scientific Method** | Measuring volume in the Chemistry Laboratory  \*Skip Project: Practice in Measuring Metric Volumes |
| Friday, April 3 | **Experiment: Determining Density** | **Project: The Scientific Method** | Measuring Mass in the Chemistry Lab |
| April 6 | Quiz 2: Measuring Matter **and** Review | Project: The Scientific Method | Project: Measuring Length with Precision  **And** Quiz 3 |
| April 7 | Test | Laboratory Safety | Observing and Hypothesizing |
| April 8 | The History of Atomic Theory **and** Experiment: Atomic Structure | Quiz 2: Scientific Investigation | Using Graphs to Analyze Data **and** Quiz 4 |
| April 9 | The Atomic Model **and** Quiz 1: Atomic Structure | Introduction to Taxonomy & Taxonomy: Classification and Naming | Doing Chemistry Your way: Find your future and Quiz 5 |
| April 13 | Elements and their Properties | Keys to Classification and Project: Classifying Fruit | TEST |
| April 14 | The Periodic Table **and** Trends on the Periodic Table | Quiz 3: Taxonomy and TEST | The Basic Ingredient: Chemical Elements |
| April 15 | Experiment: Identifying an Unknown | Life Chemistry | Project: Researching Branches of Chemistry |
| April 16 | Compounds **and** Quiz 2: Pure Substances | Atoms, Elements, **and** Compounds and Chemical Bonds | Quiz 1 **and** Using Chemical and Physical Properties to Identify Substances |
| April 17 | Mixtures | Experiment: Static Electricity | Phase Changes |
| April 20 | Separating Mixtures **and** Experiment: Separating a Mixture | Chemical Reactions **and** Quiz 1: Introduction to Biochemistry | Experiment: Observation of a Phase Change |
| April 21 | Quiz 3: Mixtures and Review | Chemistry of Water **and** Experiment: Water Properties | Inorganic Nomenclature |
| April 22 | TEST | Acids, Bases, and pH **and** Experiment pH Indicators | Creating Compound **and** Quiz 2 |
| April 23 | States of Matter | Carbon of Life | Identifying Different types of Mixtures [Skip Experiment] **and** Quiz 3 |
| April 24 | Changes of State **and** Experiment: Graphing Changes of State | Quiz 2: Biochemical Essentials | TEST |

|  |  |  |  |
| --- | --- | --- | --- |
| April 27 | Solutions - The Dissolving Process | Carbohydrates and Lipids | Nothing Stays Put: The Basis For Diffusion and Pressure |
| April 28 | Acids and Bases | Experiment: Sugar and Starch | Gases and Kinetic Molecular Theory |
| April 29 | Experiment: The Cabbage Indicator  Quiz 1: Physical Changes | Proteins, Enzymes, and Nucleic Acids | Quiz 1 |
| April 30 | Chemical Bonding | Experiment: Enzyme Action | The Relationship Between Pressure and Volume in Gases (Boyle’s Law) |
| May 1 | Atomic Structure and Bonding | Nutrition (Skip Research Paper) | Quiz 2 |
| May 4 | Experiment: Chemical Changes **and** Chemical Reactions and Conservation of Mass | Quiz 3 **and** TEST | The relationship between Temperature and Volume in Gases (Charles’s Law) |
| May 5 | Types of chemical Reactions | Cell Theory | Experiment: Finding Absolute Zero Experimentally |
| May 6 | Quiz 2: Chemical Changes | Project: Introducing the Microscope | Quiz 3: Diffusion to V-T Relationships in Gases |
| May 7 | Radioactivity | Cell Overview **and** Quiz 1 | Combined Gas Law |
| May 8 | Nuclear Reactions **and** Experiment: Half-Life | Cell Structures and Functions | Quiz 4: Diffusion to Combined Gas Law |

|  |  |  |  |
| --- | --- | --- | --- |
| May11 | Nuclear Energy | Project: Plant, Animal, and Algae Cells | Counting Gas Particles: The Measure of the Mole |
| May 12 | Quiz 3 Nuclear Changes | The Plasma Membrane | How Big is a Mole? Avogadro’s Number |
| May 13 | Review **and** TEST | Project: Virtual Lab - Osmosis | Ideal Gas Law |
| May 14 | Properties of Solids | Experiment: Osmosis and Quiz 2 | Demonstrating Conservation of Mass with Balanced Equations |
| May 15 | Experiment: comparing Hardness and Density of Solids | Cell Regulation (Skip Project: Homeostasis) | Quiz 5: Chapter Review **and** TEST |

|  |  |  |  |
| --- | --- | --- | --- |
| May 18 | Elasticity and Strength in Solids | Quiz 3 **and** TEST | The Golden Years of Chemistry |
| May 19 | Electrical Conductivity in Solids | Laws of Thermodynamics | Masters of Classic Atomic Theory |
| May 20 | Quiz 1: Solids | Energy Transformations (Skip project) | Quiz 1: Golden Years to Masters |
| May 21 | Characteristics of Liquids | Quiz 1: Introduction to Energy | Designing an Organizational Map: The Periodic Table **and** Quiz 2 |
| May 22 | Experiment: Viscosity | Photosynthesis: Energy Production in Plants **and** Experiment: Photosynthesis Reactions | Electron Configuration |