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## *Unit 1 Syllabus: Course Introduction*

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### Lesson 1.1: Rules and Procedures

Day 1	Course Introduction Unit Map
Day 2	Rules and Procedures Lesson Diagram, Course Information Handout
Day 3	Safety Rules Handout, Lab Safety Contract
Day 4	Lab Safety T Chart
Day 5	Safety Posters
Day 6	Rules and Procedures Quiz

### Lesson 1.2: The Metric Measurement System

Day 7	Metric Measurement Lesson Diagram, Metric Study Guide Part 1
Day 8	Metric Study Guide Part 2, Metric Measurement Practice Assignment
Day 9	Metric Measurement Lab
Day 10	Metric Measurement Lab Continued
Day 11	Metric Measurement Quiz

### Lesson 1.3: The Scientific Method

Day 12	Scientific Method Lesson Diagram
Day 13	Scientific Method Study Guide, Identifying Variables Assignment
Day 14	Paper Airplane Lab
Day 15	Paper Airplane Lab Continued
Day 16	Scientific Method Quiz
Day 17	Unit Review Game
Day 18	Unit Test

### Unit 1 Project: Design Your Own Experiment

Day 19 – 25	Design Your Own Experiment Project
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## *Unit 2 Syllabus: Motion*

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### Lesson 2.1: Newton's Laws of Motion

Day 1	Motion Unit Map
Day 2	Newton's Laws Lesson Diagram
Day 3	Newton's Laws Demonstrations
Day 4	Newton's Laws Demonstration Lab and Newton's Laws Assignment
Day 5	Newton's Laws Student Demonstrations
Day 6	Newton's Laws Quiz

### Lesson 2.2: Velocity and Acceleration

Day 7	Velocity and Acceleration Lesson Diagram
Day 8	Velocity and Acceleration Assignment
Day 9	Bicycle Lab
Day 10	Bicycle Lab Continued
Day 11	Velocity and Acceleration Quiz

### Lesson 2.3: Forces

Day 12	Forces Lesson Diagram, Gravity and Friction Study Guide, Gravity and Friction Assignment
Day 13	Slow Falling Object Challenge Lab
Day 14	Slow Falling Object Tournament
Day 15	Forces Quiz
Day 16	Motion Review Activity
Day 17	Motion Unit Test

### Unit 2 Project: Balloon Racers

Day 18 – 22	Balloon Racers Project
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## *Unit 3 Syllabus: Energy*

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### Lesson 3.1: Kinetic and Potential Energy

Day 1	Energy Unit Map
Day 2	Kinetic and Potential Energy Lesson Diagram, Kinetic and Potential Energy Assignment
Day 3	Roller Coaster Lab
Day 4	Roller Coaster Lab Continued
Day 5	Kinetic and Potential Energy Quiz

### Lesson 3.2: Forms of Energy

Day 6	Forms of Energy Lesson Diagram
Day 7	Forms of Energy Assignment
Day 8	Cube Keeper Lab
Day 9	Cube Keeper Lab Continued
Day 10	Forms of Energy Quiz

### Lesson 3.3: Work and Simple Machines

Day 11	Work Lesson Diagram, Work Assignment
Day 12	Simple Machines Study Guide
Day 13	Penny Lever Lab
Day 14	Work Quiz

### Unit 3 Project: Energy Alternatives

Day 17 – 21	Energy Alternatives Project
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## *Unit 4 Syllabus: Chemical Composition*

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### Lesson 4.1: Particles

Day 1	Chemical Composition Unit Map
Day 2	Particles Lesson Diagram, Particles Assignment
Day 3	Particles Within Atoms
Day 4	Particles Quiz

### Lesson 4.2: Atoms

Day 5	Atoms Lesson Diagram
Day 6	Periodic Table Assignment
Day 7	Periodic Table Entries
Day 8	Periodic Table Entries Continued
Day 9	Periodic Table Entries Presentations
Day 10	Density trend Lab
Day 11	Atoms Quiz

### Lesson 4.3: Molecules

Day 12	Molecules Lesson Diagram
Day 13	Bohr Dot Structures
Day 14	Molecules Lab
Day 15	Molecules Quiz
Day 16	Element Bingo (find materials to print and cut at end of Tab 6, Test Keys)
Day 17	Chemical Composition Unit Test

### Unit 4 Project: Molecule Models

Day 18 – 21	Molecule Models Project
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## *Unit 5 Syllabus: Chemical Processes*

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### Lesson 5.1: States and Properties

Day 1	Chemical Processes Unit Map
Day 2	Chemical and Physical Properties Lesson Diagram, Chemical and Physical Properties Assignment
Day 3	Observing Physical Properties Lab
Day 4	Slime Synthesis Lab
Day 5	Chemical and Physical Properties Quiz

### Lesson 5.2: Classification of Matter

Day 6	Classification Lesson Diagram, Classes of Matter, Classification of Matter Assignment
Day 7	Mystery Mixture Lab
Day 8	Mystery Mixture Lab Continued, Classification of Matter Quiz

### Lesson 5.3: Chemical Reactions

Day 9	Reactions Lesson Diagram
Day 10	Reaction Patterns Study Guide and Reactions Assignment
Day 11	Microchemistry Lab
Day 12	Microchemistry Lab Continued
Day 13	Chemical Reactions Quiz
Day 14	Chemical Processes Review Game
Day 15	Chemical Processes Unit Test

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## *Unit 6 Syllabus: Acids and Bases*

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### Lesson 6.1: Properties of Acids and bases

Day 1	Acids and Bases Unit Map, Properties of Acids and Bases Lesson Diagram
Day 2	Comparing Acids and Bases, Properties of Acids and Bases Assignment
Day 3	Common Acids and Bases
Day 4	pH Scavenger Hunt
Day 5	Properties of Acids and Bases Quiz

### Lesson 6.2: Strength of Acids and Bases

Day 6	Strength of Acids and Bases Lesson Diagram, Strength of Acids and Bases Assignment
Day 7	pH Lab
Day 8	Strength of Acids and Bases Quiz

### Lesson 6.3: Reactions with Acids and Bases

Day 9	Reactions with Acids and Bases Lesson Diagram, Examples of Reactions with Acids and Bases, and Reactions with Acids and Bases Assignment
Day 10	Indicators Lab
Day 11	Indicators Lab Continued
Day 12	Reactions with Acids and Bases Quiz
Day 13	Indicator Art Review Activity
Day 14	Acids and Bases Unit Test

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## *Unit 7 Syllabus: Electricity*

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### Lesson 7.1: Charges

Day 1	Electricity Unit Map and Electricity Timeline
Day 2	Charges Lesson Diagram, Charges Assignment
Day 3	Electroscope Lab
Day 4	Charges Quiz

### Lesson 7.2: Current

Day 5	Current Lesson Diagram
Day 6	Ohm's Law Practice Problems
Day 7	Comparing AC and DC
Day 8	Rheostat Lab
Day 9	Rheostat Lab Continued
Day 10	Current Quiz

### Lesson 7.3: Circuits

Day 11	Circuits Lesson Diagram
Day 12	Circuit Diagramming Assignment
Day 13	Fuse Lab
Day 14	Circuits Quiz
Day 15	Electricity Review Activity
Day 16	Electricity Unit Test

### Unit 7 Project: Quiz Boards

Day 17 – 22	Quiz Boards Project
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## *Unit 8 Syllabus: Waves*

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### Lesson 8.1: Wave Properties

Day 1	Waves Unit Map
Day 2	Wave Properties Lesson Diagram, Wave Properties Assignment
Day 3	Slinky Lab
Day 4	Slinky Lab Continued, Domino Lab
Day 5	Domino Lab Continued
Day 6	Wave Properties Quiz

### Lesson 8.2: Sound Waves

Day 7	Sound Waves Lesson Diagram
Day 8	Oscilloscope Demonstration
Day 9	Chicken Clucker Lab
Day 10	Sound Waves Quiz

### Lesson 8.3: Light Waves

Day 11	Light Waves Lesson Diagram
Day 12	Optic Golf
Day 13	Refraction Lab
Day 14	Light Waves Quiz
Day 15	Waves Review Activity
Day 16	Waves Unit Test