



PRINTABLE SUPPLY LIST FOR

Chemistry

Standard Course

UNIT	PROJECT	BOOK / ITEM	NOTES
		<ul style="list-style-type: none">• Access to research materials (internet, local library, etc.)• A metric ruler• A stopwatch or a timer (smartphone app is OK)• Microsoft© Excel© (or a similar program)• Microsoft © Word © (or a similar program)	General purchases.
1. <i>Measurement and Analysis</i>	<i>Observations, Measurements, and Analysis</i>	<ul style="list-style-type: none">• Three objects from around home	
2. <i>Starting the Investigation: How to Identify Elements, Compounds, and Mixtures</i>	<i>Identifying Types of Mixture</i>	<ul style="list-style-type: none">• Three clear glasses with smooth sides• A laser pointer or flashlight• Red Jell-O• Red food coloring• Sugar (white)	
3. <i>Exploring the Laws for Gases and Conservation of Mass</i>	<i>Demonstrating the Gas Laws</i>	<ul style="list-style-type: none">• Stove top• Three soda pop cans (empty)• Tablespoon• Tongs• Gloves• Bowl• Cold water and ice	

<p>4. The Discovery of Atoms: Nature's Building Blocks</p>	<p><i>Choose a Product (Discovery of Atoms)</i></p>	<ul style="list-style-type: none"> Supplies depend on what product students choose to create; options will include creating a children's book, essay, experiment, video, song, etc. 	
<p>5. Molecular Structure</p>	<p><i>Modeling Chemical Bonding</i></p>	<ul style="list-style-type: none"> Access to printer (to print downloadable document) Scissors Pushpins Bulletin board 	<p><i>If you do not have push pins and a bulletin board, you may use something else to represent the electrons (e.g., small rocks, coins, round candy, chocolate chips, etc.)</i></p>
<p>6. Chemical Reactions, Rates, and Equilibrium</p>	<p><i>Measuring Chemical Reaction Rates</i></p>	<ul style="list-style-type: none"> Baking soda Vinegar Four plastic, water bottles (must all be same size) Funnel Teaspoon Tablespoon Four balloons (same size) Food coloring (optional) Piece of string (at least 12-inches long) Ruler or meter stick 	
<p>7. Equilibrium Systems</p>	<p><i>Examining Solubility</i></p>	<ul style="list-style-type: none"> Rubbing alcohol or hydrogen peroxide Club soda or clear soda Cooking oil Table salt Baking soda Table sugar Epsom salt Sand/rocks Clear cups or glasses Spoons to stir Measuring teaspoon Measuring tablespoon 	
<p>8. Carbon Chemistry: Hydrocarbons</p>	<p><i>Choose a Product (Final Chem Project)</i></p>	<ul style="list-style-type: none"> Supplies depend on what product students choose to create; options will include creating a children's book, essay, experiment, video, song, etc. 	

Honor Course

UNIT	PROJECT	BOOK / ITEM	NOTES
9. Carbon Chemistry: Hydrocarbons	<i>Observing Volatility</i>	<ul style="list-style-type: none"> • Acetone • Isopropyl alcohol • Mineral oil • Water • Four test tubes or other equal size glass containers • Grease marker or masking tape • Ruler • Goggles 	The liquids can be substituted if they are inaccessible.
10. Carbon Chemistry: Functional Groups	<i>Turning Milk into Plastic</i>	<ul style="list-style-type: none"> • 4 identical mugs or heat resistant cups (able to hold 8oz or more) • Masking tape • Pen/permanent marker • Teaspoon • White vinegar (8oz or more) • 1 gallon of milk (nonfat, 1%, 2%, or whole) • Microwavable cup or container (large enough to hold 4 cups of milk (ask your teacher for an example) • Microwave • Cooking or candy thermometer (ask your teacher for an example) • 4 spoons • 12, 6" x 6" cloths (can cut up old shirts) • 4 rubber bands • 4 clear plastic or glass drinking cups (able to hold 8oz or more) • Kitchen scale (accurate to 1 gram; ask your teacher for an example) • 12 squares of wax paper (about the size of scale's weighing surface) • Paper towels 	
11. Chemistry Review	<i>Project: Create a Product (Chem Review)</i>	<ul style="list-style-type: none"> • Supplies depend on what product students choose to create; options will include creating a children's book, essay, experiment, video, song, etc 	