



PRINTABLE SUPPLY LIST FOR

Biology

Standard Course

UNIT	PROJECT	BOOK / ITEM	NOTES
		<ul style="list-style-type: none">• Access to research materials (internet, local library, etc.)• A metric/imperial ruler• A stopwatch or a timer (smartphone app is OK)• Word processing program. Examples include<ul style="list-style-type: none">• Microsoft Word© (purchase required, but often included with PC computers)• Apple Pages© (available free on most Macbook computers)• OpenOffice Writer© (open-source program available for free, PC and Macbook)• Google Docs as a browser alternative• Spreadsheet processing program. Examples include<ul style="list-style-type: none">• Microsoft Excel© (purchase required, but often included with PC computers, also available for Macbooks)• Apple Numbers© (available on most Macbook computers)• OpenOffice Calc© (open-source program available for free, PC and Macbook)• Google Sheets as a browser alternative• Access to a printer	General purchases.

<p>1. <i>Taxonomy- Key to Organization</i></p>	<p>Activity: <i>Taxonomy</i></p>	<ul style="list-style-type: none"> • 8 - 10 items or people to use to create a dichotomous key (ex. Foods in the kitchen, pictures of plants or animals, etc.) 	
<p>2. <i>Chemistry of Life</i></p>	<p>Lab: <i>Protein Denaturation</i></p>	<ul style="list-style-type: none"> • Four eggs • Two cups of milk (preferably whole/full cream, or made from powdered milk) • Your own hair from a hairbrush or comb • Small saucepan • Mixing bowl • Baking tray or cookie sheet • Aluminum foil • Candy thermometer or cooking/meat thermometer • Stove/oven (with oven mitts/pot holders) 	
<p>3. <i>Cells</i></p>	<p>Lab: <i>Osmosis Activities</i></p>	<ul style="list-style-type: none"> • Three large eggs (+one or more extras) • White vinegar (cheap vinegar will do) • Three large cups • One plate • Large slotted spoon • Tap water • Corn syrup • Liquid measuring devices: cups and tablespoons • Kitchen balance 	
<p>4. <i>Cells Division and Reproduction</i></p>	<p>Activity: <i>Examining the Phases of Mitosis</i></p>	<ul style="list-style-type: none"> • Image of dividing cells (within assignment) • Tally chart (within assignment) • Blank graph (within assignment) • Colored pens/pencils 	
<p>5. <i>Genetics- God's Plan of Inheritance</i></p>	<p>Lab: <i>Exploring Molecular Genetics</i></p>	<ul style="list-style-type: none"> • 100 radish seeds • Potting soil (One-lb bag) • Ten small plates or tins • Microwave • Microwave safe plate • Water and a dropper (or spray bottle) • Sunny windowsill or table • Marker and tape • Large cardboard box 	

<p>7. <i>Plants- Green Factories</i></p>	<p>Lab: <i>Photosynthesis</i></p>	<ul style="list-style-type: none"> • Elodea or any aquatic plant • Online source here: https://www.amazon.com/Anacharis-Tropical-Aquarium-Aquatic-New/dp/B01CXKVU7Q • Other aquatic plants may work as an alternative to Elodea. Message instructor for advice if you cannot acquire Elodea at your location • Lamp • Knife or scissors • Kitchen scale 	
<p>8. <i>Human Anatomy and Physiology</i></p>	<p>Activity: <i>Chicken Wing Dissection</i></p>	<ul style="list-style-type: none"> • Raw chicken wing • Dissecting scissors (small, sharp scissors or kitchen shears will work) • Online source for dissecting kit - not necessary but has many of the appropriate materials (talk to your teacher) • Forceps or large tweezers • Blunt probe (wooden skewer or dull wooden pencil will work) • Cutting board • Gloves, goggles, apron 	

Honor Course

<p>UNIT</p>	<p>PROJECT</p>	<p>BOOK / ITEM</p>	<p>NOTES</p>
<p>3. <i>Cells</i></p>	<p><i>Introducing the Microscope</i></p>	<ul style="list-style-type: none"> • Physical microscope 	<p>This is optional. The project is virtual so students can use an online resource or, if they prefer, a physical microscope instead</p>
<p>5. <i>Genetics- God's Plan of Inheritance</i></p>	<p>Lab: Probability</p>	<ul style="list-style-type: none"> • Two coins • Box (shoebox will work) 	

<p>8. <i>Anatomy and Physiology</i></p>	<p>Activity: Heart Rate</p>	<ul style="list-style-type: none"> • A partner • Stopwatch (phone app will work) 	
<p>9. <i>Ecology, Pollution, and Physiology</i></p>	<p>Activity: Population Ecology</p>	<ul style="list-style-type: none"> • Ecology simulator (talk to your teacher for resources) 	
<p>9. <i>Principles and Applications of Biology</i></p>	<p>Lab: Create a Product (Principles of Biology)</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, speech, song, etc. • Might require audio or recording devices. Message the instructor in the helpbox if you need more guidance. 	