FlexPoint VIRTUAL SCHOOL

Course	Materials
Agricultural Communications 2 v21	Any software program that can be used for graphic design, document design, and video editing.
Agricultural Communications 3 v22	
Agricultural	 and video editing. Any software program that can be used for graphic design, document design, and video editing. Safety Lab One aluminum tin (pie size or larger) or rectangle metal cake pan Soil (to fill up one quarter of the aluminum tin above) Water 50 mL cooking oil (such as vegetable oil or olive oil) Oil clean-up materials (selected examples include spoons, craft sticks, plastic wrap, cotton balls or squares, paper, pieces of sponge, coffee filters, liquid soap or detergent) Cellular Systems Lab Two matching containers (clear glass or plastic bottles or cups such as soda bottles or mason jars) Gravel or small rocks Soil (potting soil or topsoil) and sand (if you choose the substrate variable) One bag of nine-bean soup mix from a grocery store Water and measuring cup Plastic wrap and aluminum foil (if you choose the light variable) Ruber bands Ruler Animal and Plant Systems Lab Sharp scissors Colored pencils Newspaper, tray, or other protective covering for work area Gloves (optional) A cut of raw meat, with bone in and skin on if possible, from the animal you chose in Part 1. This may be purchased from a grocery store. Examples you may choose: Raw chicken wing (with upper wing, lower wing, and wingtip joined) Chicken or turkey leg with skin on Chicken or turkey leg with skin on
	 Pork shanks with bone in Environmental Resources Lab Distilled water
	 Distilled water Metric ruler
	Small zipper storage bag
	Soil from the yard, garden, or other local source
	 Jar with tightly fitting lid (tall and skinny would be best)



	 Small digging tool pH strips (available at hardware and pool supply stores) or vinegar and baking soda Agriscience Data Lab Choice of materials vary depending on choice of student project
Algebra I v23	Scientific calculator
Algebra II v19	Graphing calculator or software
American Sign Language I v19	Required: device of choice to record video (for example: webcam or smartphone or tablet with video) paper pen or pencil Optional: microphone
	printer
American Sign Language II v19	 speakers or headset Required: device of choice to record video (for example: webcam or smartphone or tablet with video) paper pen or pencil
	Optional: microphone printer speakers or headset
Anatomy and Physiology v13.2	 Books of similar size (2), Chicken bone document, Chicken wing raw (upper and lower wingtip joined together), Clock or timer with second hand, Cups, Dropper or teaspoon, Food coloring bottles (2) red and green (optional), Gloves (optional), Glue or tape, Jump rope (optional), Liquids for taste testing (5), Marker and tape to label the blood sample and serums, Masking tap (or small stickers), Milk (one cup), Newspaper, Partner (family member or friend), Pen or pencil, Scissors (sharp), Stopwatch or watch, Sterile swabs, Toothpicks, Vinegar, Water
AP Biology v20	Recommended • non-local location for assignment back-up (e.g. cloud-based folder, email, etc.) • *AP Classroom: https://apcentral.collegeboard.org/ Required eText; see storefront for pricing and details Required Lab Materials 02.06 Tonicity and Osmoregulation

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- 4 large plastic cups or bowls
- 8 small cups or bowls
- 2 thin non-durable zip-lock plastic sandwich bags (the generic version work best)
- Measuring cups and spoons
- Iodine
- ¹/₄ cup cornstarch or small potato
- Strainer (optional)
- Paper towels
- 100 mL distilled water
- 60 g or 5 tbs sugar (sucrose)
- 1 potato
- 1 of the following: sweet potato, pear, or apple
- Aluminum foil or plastic wrap
- Knife
- Metric ruler

02.07 Mechanism of Transport

- Small potted plants with lots of leaves and no/few flowers
- 1-gallon plastic food storage bags w/out zip-lock
- Fan, heat lamp, salt (if testing environmental factors)
- String
- Water
- 03.04 Photosynthesis
 - Baking soda (sodium bicarbonate)
 - Tap water
 - Liquid dish soap
 - Glass cup or bowl
 - Hole puncher or plastic drinking straw
 - Leaf from a living plant (flexible, without a waxy covering—such as fresh spinach)
 - Plastic syringe (10 mL or larger, without needle—can be purchased at a drug store)
 - Timer or clock with a second hand
 - Lamp (with 60-watt or higher light bulb)
 - Metric ruler

04.06 Regulation of Cell Cycle

- Pick one of the following: potatoes, kiwi, peaches, cherries, apricots, bananas, watermelon, or pineapple
- Baking soda (if testing pH)
- Water (and a way to warm it if testing temperature)
- Ice cubes (if testing temperature)
- Vinegar (if testing pH)



	 Hydrogen peroxide (can be purchased at a grocery store)
	 Glasses, cups, small bowls, or jars
	Something to crush fruit or veggie
	 Large containers to hold hot and cold water (if testing temperature)
	Measuring cups
	Marker, paper, and tape for labeling
	• Timer
	Segment One Collaboration (Optional)
	Baking soda (sodium bicarbonate, NaHCO3)
	Tap water
	Liquid dish soap
	Glass cup or bowl
	 Hole puncher or plastic drinking straw Leaf from a living plant (flexible, without a waxy covering—such as
	fresh spinach)
	 Plastic syringe (10 mL or larger, without needle—can be purchased at a drug store)
	Timer or clock with a second hand
	 Lamp (with 60–watt or higher light bulb)
	Metric ruler
	05.01 Meiosis
	ClayPipe cleaners
	Candy
	Beads
	String
	Any other objects that will work
	Segment One Collaboration (Optional)
	 125 light-colored beans and 50 dark-colored beans (if you do not have beens look for alternatives such as two solars of condice)
	have beans, look for alternatives such as two colors of candies)1 bag
	Calculator
	Graph paper
AP Calculus AB v14	StudyForge material required; see storefront for pricing and details
AP Calculus BC v14	StudyForge material required; see storefront for pricing and details
AP Calculus AB v20	StudyForge material required; see storefront for pricing and details
	College Board-approved graphing calculator
AP Calculus BC v20	StudyForge material required; see storefront for pricing and details College Board-approved graphing calculator
AP Computer Science	IMACS material required; see storefront for pricing and details
v20	
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AP Environmental	Required Course Supplies
Science v20	Calculator (four function, scientific, graphing)
	Required Lab Supplies
	01.05 Trophic Levels and Energy Flow
	calculator
	• paper
	• pencil/pen
	 digital charts or drawing tools (found in MS Word)
	03.02 Soil and Watersheds
	calculator
	• paper
	• pencil/pen
	 digital charts or drawing tools (found in MS Word)
	04.05 Ecological Footprints
	6 plastic cups
	70 navy beans
	40 kidney beans
	40 black beans
	 100 black-eyed peas
	marker for labeling cups
	05.06 Energy Conservation
	a calculator
	Optional Enrichment Activity Supplies
	01.03 Cycles – Cloud Lab
	 one two-liter plastic soda bottle that is "clear," so you can see through
	it (be sure the bottle has a cap)
	 book of matches (no lighters, please—they don't make smoke when
	extinguished)
	 250 mL beaker (use a 2–4 cup clear measuring cup if you don't have
	beakers)
	hot water
	 ice water (put some ice cubes in a container of water)
	02.02 Ecological Relationships – Island Biogeography
	• paper
	 colored pencils, crayons, or pens (suggested colors: brown, red,
	green, yellow, blue)
	 100 small beans (any type)
	02.05 Population Species – Cemetery Lab
	 a cemetery (or access to cemetery records)
	a calculator
	a pencil or pen
	paper
	03.01 Plate Tectonics – Mechanisms of Movement
	water
	• pan



- raw egg
- cracking device such as a teaspoon
- paper towels or newspaper
- 03.02 Soil and Watersheds Soil Properties
 - soil from the area of your home
 - coffee filters
 - clear measuring cup
 - cornstarch
 - iodine solution from the drug store
 - shovel
 - NPK kit from your local hardware store, garden center, or home improvement store
- 03.04 Solar Radiation and Seasons Solar Intensity
 - a thermometer or color-changing temperature strip
 - a protractor (or print-out of a protractor)
 - a large flashlight or table lamp (cell phone flashlights or energyefficient bulbs will not work for this activity.)
- 03.05 Weather and Climate Climatography Lab
 - graph paper
 - pencil or pen

04.04 Mining and Urbanization – Cookie Mining Lab

- chocolate chip cookie
- toothpicks
- paper clips
- graph paper
- stopwatch or clock with second hand

04.06 Sustainability - Carbon Sequestering in Trees

- pick one of the following trees: oak, hickory, maple, or Southern pine
 - a tape measure
 - a calculator
 - a stick
 - piece of paper
 - pencil or pen

04.07 Pest Management – Pest Management Lab

- paper towel or newspaper
- magnifying glass
- any four of the following: flour, sugar, oatmeal, rice, cornmeal, bag of beans

06.04 Acid Deposition - The Effects of Acid Rain

• five plastic cups



	 tap water (pH 7.5) distilled water (pH 5) vinegar (pH 2.4) lemon juice (pH 2) three pieces of chalk small nail three paper clips an egg (only eggshells needed) two green leaves 07.02 Impacts on Aquatic Ecosystems – Marine Clean-Up one aluminum tin (pie size or larger) or rectangle metal cake pan stones, sand, or gravel to fill up about one quarter of the pan (this will be your beach) two bird feathers (can be found in craft or hobby materials) water 50 mL cooking oil (such as vegetable oil or olive oil) clean-up materials: sample materials include spoons, craft sticks, plastic wrap, cotton balls or squares, paper, pieces of sponge, coffee filters, and liquid soap or detergent
AP US History v16	eText required; see storefront for pricing and details
Biology v20	Required Materials for student designed laboratory set-up in lesson 02.01 Properties of Water (materials will vary) blindfold paper towels sink soap timer or watch that counts seconds washable paint or food coloring Optional jar with a lid (like a mayonnaise jar) newspaper to protect the work surface raw egg ruler string or thread or yarn syrup tap water white vinegar
Biology 1 for Credit Recovery v15	Raw egg, String, thread, or yarn, Ruler, White vinegar, Tap water, Jar with a lid (like a mayonnaise jar), 5 different colors of paper- cut into 1 cm × 1 cm squares (at least 100 squares of each color), Multi-colored fabric or newspaper, approximately 1 meter × 1 meter, One or two partners (friends or family), Timer or watch that counts seconds, Sink, Blindfold, Washable paint or food coloring,

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	Paper Towels, Soap, Newspaper to protect the work surface (optional)
Calculus Honors v14	StudyForge material required; see storefront for pricing and details
Cambridge AICE International History AS Level v21	eText required; see storefront for pricing and details
Cambridge AICE Marine Science AS Level v21	eText required; see storefront for pricing and details
Cambridge AICE Psychology 1 AS Level v21	eText required; see storefront for pricing and details
Cambridge AICE United States History 1 AS Level v21	eText required; see storefront for pricing and details
Chemistry v18	 Required scientific or graphing calculator 03.05 Molecular Structure: deionized (distilled) water, rubbing alcohol, vegetable oil, iodine, sodium chloride (salt), acetic acid (vinegar), test tubes or clear plastic cups, tablespoon and teaspoon, stirring sticks, permanent marker for labeling 05.07 Honors Stoichiometry: water, sugar, lemon juice 07.04 Honors Calorimetry: thermometer, two foam cups, measuring cup from your kitchen, hot water, and one liquid selected from the list below and placed in your refrigerator for one or more hours before you begin your activity. Liquid options: thermometer, two foam cups, measuring cup from your kitchen, hot water, and one liquid (grape juice, whole milk, orange juice, or tomato juice) 08.03 Solutions Lab: 13 plastic cups (12 oz), permanent marker for labeling, measuring stick, tablespoon and teaspoon, kitchen scale that measures in grams (optional), water, source of heat, granulated sugar, sugar cubes, spoon for stirring, three to four packages of powdered drink mix (6.6 ounces per package) Optional 01.05 Changes in Matter: ice cubes (at least one cupful), one two- to threequart saucepan, a kitchen thermometer (that measures temperatures up to at least 105 °C, or around 215 °F), a stove top 01.06 Pure Substances and Mixtures: candy with a colored coating, like Skittles® or M&Ms® (four different colors), rubbing alcohol or isopropyl alcohol, coffee filters (two), tall glasses or plastic cups (two), pencil, ruler,



tape, foil or paper plate, table salt, water, toothpicks or cotton swabs
(four), measuring cups or spoons, clean pitcher or two-liter bottle
• 01.07 Laboratory Techniques: apple juice, orange juice, or milk; any type
of vinegar, cooking wine, saltwater, thermometer, pots, heat source
• 02.06 Periodic Table: empty container, 100 random pennies, kitchen scale
 03.03 Covalent Bonding: multicolored gumdrops, marshmallows, soft
candy, fruit, aluminum foil balled up, foam balls, cotton balls, play dough,
or cereal; Q-tips, hair pins, toothpicks, paperclips, or other stick-like
objects; paper and pencil
• 04.02 Synthesis and Decomposition Reactions: assorted colors of building
blocks (such as Legos®)
04.04 Combustion and Redox Reactions: 20 dull pennies, 1/4 cup white
vinegar (diluted acetic acid), one teaspoon table salt (NaCl), 1 shallow,
clear glass or plastic bowl (not metal), one plastic spoon or fork, one or
two clean steel screws or nails (not galvanized) or plain metal paper clips,
water, measuring spoons, paper towels
04.05 Honors Oxidation Reduction: lemon, strip of copper metal (a penny
will work as well), strip of zinc metal (a nickel will work as well), two cables
with alligator clips, knife (used with permission from a guardian), a clock or
other device with an LCD display
• 04.07 Honors Radioactive Decay: 200 M&M® candies, pennies, or other
small candies/items with two distinct sides, shoebox or another small box
with a lid
 05.05 Limiting Reactant: two boxes/packages of the same cookie mix,
measuring cups and spoons, mixing spoons and bowls, two baking pans
of the same size and depth, additional ingredients requested by cookie
mix recipe
 05.06 Percent Yield: heat source (a stove or hot plate will work best),
baking soda, kitchen scale, stirring spoon, cooking pot
 06.01 Kinetic Molecular Theory: friend or family member, scented candle,
matches or lighter, spray air freshener, stopwatch or timer
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06.02 Phase Changes: household or crafting items
• 06.03 Gas Laws: 3-inch × 5-inch card, marker, pencil, one empty soda
can, tongs, water, one two- to three-quart saucepan
• 07.01 Endothermic and Exothermic: bowl of cold water, second bowl of
very warm (but still safe to the touch) water, third bowl of room-
temperature water
 07.03 Honors Entropy: one piece of steel wool, vinegar, baking soda,
thermometer (if you have one) or use your hand to sense temperature
change, glass jar with lid or disposable plastic cups with lid/plastic wrap,
newspaper, two disposable plastic spoons, measuring cup
08.01 Properties of Water: toothpick, cup, water, small bowl, soap, staple
or paperclip
• 08.04 Acids and Bases: red cabbage, rubbing alcohol, cheesecloth, paper
towels, 10 clear plastic cups, labeling pen or marker, two small bowls,
tablespoon, three tablespoons of: distilled water, lemon juice, cola, corn
oil, shampoo, vinegar, dishwashing liquid



Chemistry v22	 07.03 Honors Calorimetry: thermometer, two foam cups, measuring cup from your kitchen, hot water, and one liquid selected from the chart below and placed it in your refrigerator for one or more hours before you begin your activity 08.03 Solutions Lab: 13 plastic cups (12 oz), permanent marker for labeling, measuring stick, tablespoon and teaspoon, kitchen scale that measures in grams (optional), water, source of heat, granulated sugar, sugar cubes, spoon for stirring, three to four packages of powdered drink mix (6.6 ounces per package)
Chemistry I for Credit Recovery v15	 Multicolored gumdrops, marshmallows, soft candy, fruit, Styrofoam balls, Play- Doh, or other items to represent atoms in each model Toothpicks, paper clips, or other stick-like objects to represent the covalent bonds in each model Alternative: Photo-editing program, digital imaging, or presentation programs to create molecular models
Chinese I v21	Microphone and recording device for computer
Chinese II v22	Microphone and recording device for computer
Chinese III v20	Microphone and recording device for computer
Computer and Network Security Fundamentals v20	Infosec Learning Access Code (see storefront for pricing and details)
Consumer Mathemathics v21	Calculator; optional graphing paper or graphing technology
Digital Art Imaging I v22	Word processing program
Earth Space Science v19	 Required Lab Materials 01.06 Matter and Energy Lab: Lesson Demonstrations: "The Iced Tea Debate" and "The Salty Soup." No additional materials needed. 02.04 Meteorology Lab: Weather Maps Symbols Key (see lesson), Graphing software or application, Graphing tutorial (optional- see lesson). 03.01 Surface Water Lab: one sheet of plain white paper several sheets of old newspaper, or wax paper if available one water-based marker (Note: do not use permanent marker) one spray bottle containing water (place on "mist" setting) digital camera, if available 03.02 Groundwater Lab: water, a clean penny, food coloring, vegetable oil, clear plastic cups, dropper or pipette, ice cube, black pepper, a bowl, dish



soap, sponge or cloth, a heating source (sunlight, lamp, etc.) or a cooling source (refrigerator), one balloon, measuring tape or string and a ruler • 04.04 Origin and Expansion of the Universe Virtual Lab: Watch the virtual lab demonstration video within the lesson. No additional materials are needed. • 05.03 Rocks and Minerals as Resources: chocolate chip cookie, toothpicks (flat and round), paperclips, graph paper, stopwatch, timer or clock with second hand 07.02 Ocean Circulation Virtual Lab: This lab will be done through a virtual lab scenario. Tracking data is provided through this online format. 08.02 Forces in Our Solar System Virtual Lab: Gravity virtual lab activity. No additional materials needed. 08.06 The Earth-Sun-Moon System Lab: One Styrofoam ball or white tabletennis ball, One dowel rod, pencil, or another long holder for the sphere, Tape, if needed, Darkened room, preferably without windows, One lamp or source of light 09.03 Mechanisms of Movement Lab: Watch the virtual lab demonstration video within the lesson. Optional: to perform the lab in the video demonstration, the materials are needed: water, pan, raw egg, cracking device such as a teaspoon, paper towels or newspaper • 09.05 Geologic Events Lab: Earthquake Epicenter lab within the lesson. No additional materials necessary. **Optional Lab Materials** • 02.01 Cloud Lab: one two-liter plastic bottle that is "clear," so you can see through it (be sure the bottle has a tight-fitting cap), warm water, isopropyl alcohol (rubbing alcohol), bike/ball pump with needle, rubber stopper, safety glasses, pressure sensor (optional)

- 02.04 Creating Fronts Lab: identical baby food jars (you do not need lids), heavy paper coated in plastic (you can also use an index card), blue food coloring, red food coloring, warm tap water, cold tap water, two measuring cups with pour spouts, spoon, paper towels, basin
- 03.02 How to Eat and Aquifer Lab: Blue or red food coloring, Several scoops of vanilla ice cream, Two glasses of clear soda such as Sprite[™] or 7UP[™], Small bits of food to represent gravel and sand (e.g., chocolate chips, crushed cookies or ice, cereal, gummy bears), Sprinkles or sugars in various colors, Drinking straw, Clear plastic cup, Ice cream scoop, Spoon
- 03.03 Water Quality Lab: This lab will be done through a virtual lab scenario. Water samples and equipment will be provided through this online format.
- 03.04 Toothbrush Lab: plastic bucket or bowl, toothbrush, timer, stopwatch or clock, measuring cup



	 05.04 Soil Composition Lab: water, metric ruler, small zipper storage bag, dirt from the yard or garden, jar with tightly fitting lid (tall and skinny would be best), a small digging tool 07.01 Ocean Currents in a Jar Lab: two baby food jars (minimum), food coloring (four colors), index cards, hot/cold water, salt, spoon, a partner at your house 07.02 El Niño Lab: Large rectangle plastic container, Water, 1 cup mineral oil, Mixing Dish, Food coloring, Hair dryer, Funnel, 2 tablespoons red oilbased paint 08.04 Make Your Own Comet Lab: Five pounds of dry ice, finely crushed, Insulated container to hold the dry ice, Thick gloves, Rubber mallet, Safety goggles, Plastic bowl, Large towel to protect your work area, Several 12-gallon garbage bags, Flat tray, Liter of water, 2 cups of dirt, 1 tablespoon of starch, 1 tablespoon of dark syrup or soda, 1 tablespoon of vinegar, 1 tablespoon of rubbing alcohol, Hairdryer, Flashlight, Adult supervision 08.04 Star Chart Honors Lab: Star chart for the current month, Star chart reading tutorial from honors lesson (Star Chart tab) 09.01 Shape of the Earth Lab: sheet of paper, pencil, tape
Environmental	03.06 Global Change
Science v21	ruler
	tape
	water
	scissors
	ice cubes plastic wrap
	small towels
	aluminum foil
	desk lamp (optional)
	two thermometers
	rubber band, string, or floss
	two or more glasses or jars (if you have more, you can run experiments simultaneously)
	funnel or small strainer (large enough to fit on glass but not fall in)
	kitchen mitts or gloves
	04.05 Ecological Tolerance
	paper
	colored pencils, crayons, or pens (suggested colors: brown, red, green, yellow, blue)
	100 small beans (any type)
	a calculator
	Enrichment Activities (Optional)
	You will need the following items to complete the optional hands-on labs:
	01.05 Terrestrial Biomes
<u></u>	da Virtual School



graph paper pencil or pen
01.07 Mining and Drilling chocolate chip cookie toothpicks paper clips graph paper stopwatch or clock with second hand
02.02 Freshwater Biomes one sheet of plain white paper several sheets of old newspaper, or wax paper if available one thick water-based marker (Note: do not use permanent marker) one spray bottle containing water (place on "mist" setting) digital camera or camera from mobile device
 02.06 Ocean Impact and Recovery one aluminum tin (pie size or larger) or rectangle metal cake pan stones, sand, or gravel to fill up about one quarter of the pan (this will be your beach) two bird feathers (can be found in craft or hobby materials) water 50 mL cooking oil (such as vegetable oil or olive oil) clean-up materials; sample materials include spoons, craft sticks, plastic wrap, cotton balls or squares, paper, pieces of sponge, coffee filters, and liquid soap or detergent
03.02 Atmosphere and Weather a thermometer or color-changing temperature strip a protractor (or print-out of a protractor) a large flashlight or table lamp (cell phone flashlights or energy-efficient bulbs will not work for this activity)
03.03 Air Pollution five plastic cups tap water (pH 7.5) distilled water (pH 5) vinegar (pH 2.4) lemon juice (pH 2) three pieces of chalk small nail three paper clips an egg (only eggshells needed) two green leaves
03.04 Greenhouse Effect calculator



Student Provided Lab & Other Materials Grades 6-12

number of lowers that use lighthulps in view barries
number of lamps that use lightbulbs in your house
approximate number of miles you travel in a car per day
number of aluminum cans, glass bottles, and pounds of paper you recycle per
day
04.02 Ecology
posterboard or drawing program on computer
markers (if using posterboard)
camera
04.03 Population Dynamics
popcorn kernels or small candy pieces
large funnel
ruler
piece of paper cut in a circle
04.04 Ecosystem Diversity
scissors
marking pens
see-through, plastic, or wax paper
calculator (if needed)
05.04 Environment and Human Health
radio frequency, EMF Radiation, or electromagnetic radiation mobile app
05.07 Water Consumption
pitcher for water
2-liter clear plastic bottle
1 tablespoon of coffee grounds
2 tablespoons sand
2 tablespoons of liquid soap, such as hand or dish soap
2 tablespoons fertilizer, all-purpose plant food
4 tablespoons of brightly colored plastic beads or beans
extra sand for filtration
different sizes of gravel
activated charcoal, used in fish tanks, found in pet stores
coffee filters
cotton mesh/cheese cloth (cut squares of old t-shirts can work)
water and sink
safety goggles, one pair per student
paper and pencils, for sketching and planning a design
••
DIACK DUTCHER PAPER
1 tablespoon of vegetable oil 2 tablespoons of liquid soap, such as hand or dish soap 2 tablespoons fertilizer, all-purpose plant food 4 tablespoons of brightly colored plastic beads or beans extra sand for filtration different sizes of gravel activated charcoal, used in fish tanks, found in pet stores coffee filters cotton mesh/cheese cloth (cut squares of old t-shirts can work) water and sink safety goggles, one pair per student rubber gloves, one pair per student



	duct tape a stick, straw, or ruler to prop open box top three thermometers three cardboard milk cartons timer pieces of wood, brick, and stone or rock of approximately equal size
English I/Honors v21	Microphone and recording device for computer
English II/Honors v21	Microphone and recording device for computer
English III/Honors v21	Microphone and recording device for computer
English IV v21	Microphone and recording device for computer
Fitness Lifestyle Design v17	Fitness Assessment Supplies: Yard stick or tape measure, Stopwatch or a watch that counts seconds, Pieces of paper, Tape, Bathroom scale, Working speakers for course videos
Forensic Science v23	Required: •Three pens of the same color ink and water-soluble •Slow absorbing paper towels or coffee filters •Collecting bags (Ziploc bags or envelopes) •Styrofoam plates or soft cookies or bread • Graphite pencils (most common)
French I v18	Microphone and recording device for computer
French II v18	Microphone and recording device for computer
Geometry for Credit Recovery v15	A word processing program (Word Pad is sufficient), printer paper, 1 two inch, three-ring binder to serve as your Geometry notebook, 1 set of subject separators/tabs for your notebook, one for each module, 1 blank disk for saving your work or you can create a folder on your hard drive to save your assignments, Protractor, Compass, A tape measure for some project type assignments, Tissue paper or wax paper for some activities, Index Cards, Graph paper (optional)
Geometry v19	 3 ring-binder (1 two inch) and subject separators for your notebook (one for each module) Compass Graph paper (optional) Index cards Printer paper Protractor Tape measure Tissue paper (or wax paper) Word processing program
Hebrew I v21	Microphone and recording device for computer
Hebrew II v22	Microphone and recording device for computer



HOPE v14.3	Fitness tracker (optional), Yard stick or tape measure, Stopwatch or a watch that counts seconds, Pieces of paper, Tape, Bathroom scale, Camera to record video
Human Growth and Development v22	Use of any portfolio program
Integrated Biology v20	Required 02.01 Properties of Water (materials will vary) blindfold paper towels sink soap timer or watch that counts seconds washable paint or food coloring Optional jar with a lid (like a mayonnaise jar) newspaper to protect the work surface raw egg ruler string or thread or yarn syrup tap water white vinegar
Introduction to Hospitality v21	Any software program that can be used for graphic design, document design, and video editing.
Introduction to the Teaching Profession v21	Use of any portfolio program
Latin I v22	Microphone and recording device for computer
Latin II v21	Microphone and recording device for computer
Latin III v2o	Microphone and recording device for computer
Liberal Arts Math 1 v16	Scientific calculator, Graph paper, Compass, Straightedge or ruler
Liberal Arts Math 2 v17	Scientific calculator, Graph paper, Compass, Straightedge or ruler StudyForge material required; see storefront for pricing and details
Marine Science v15	 01.02 Ocean Exploration 2-liter bottle with cap (empty) Cartesian diver. There are a few easy ways to make one: Option 1: ketchup or soy sauce condiment packet

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Mathematics for College Algebra	 Option 2: medicine dropper Option 3: pen cap and modeling clay or silly putty Ruler or tape measure Small bowl Water 03.04 Honors Sound in the Sea Coffee (instant coffee) Mugs (2, ceramic works best) Plastic straws Teaspoons (2, metal) Water (boiling, use caution!) Water (ice) 05.06 Marine Pollution: Aluminum tin (1, pie size or larger or rectangle metal cake pan) Bird feathers (2, can be found in craft or hobby materials) Cooking oil (50 mL, such as vegetable oil or olive oil) Clean-up materials (sample materials include spoons, craft sticks, plastic wrap, cotton balls or squares, paper, pieces of sponge, coffee filters, and liquid soap or detergent) Stones, sand, or gravel to fill up about one quarter of the pan (this will be your beach) Segment Two Collaboration Cotton balls (paper towels or toilet paper) Hard-boiled eggs (10-15) Masking tape Paper cups Popsicle sticks Water Alternative options for these materials are listed in the answer keys
v22	
Middle School Business Keyboarding v20	Access to Office.com or access to programs similar to Microsoft Word and Microsoft PowerPoint.
Middle School Comprehensive PE 6/7 v22	Stopwatch, Measuring tape, Masking tape or chalk, Whistle, Any coin, Tennis ball Video recorder
Middle School Comprehensive PE 7/8 v22	Stopwatch, Measuring tape, Masking tape or chalk, Whistle, Any coin, Tennis ball, Video recorder



Middle School Comprehensive Science I v18	 01.02 Types of Forces: Steps, hard-cover books, blocks, or boxes to hold up the ramp, Wood, foam board, hard-cover notebook, cookie sheet, or other flat surface for ramp, small ball (rubber, golf, tennis, etc.) or can to roll down the ramp, Ruler or tape measure, Towel, carpet, cotton fabric, sandpaper, or other material to alter the surface texture of the ground 01.05 Graphing Speed: Timer, Meter stick or tape measure, Masking tape, sticky notes, paper, toilet paper, or other material that can be used to indicate distance, Marker 02.04 Spheres of Earth: Two matching containers (clear glass or plastic bottles or cups such as milk jugs, soda bottles, or mason jars), Gravel or small rocks, Soil (potting soil or dirt), Two small plants (moss, grass, small potted plant), Water, Plastic wrap, Marker, Ruler 06.05 Infections and Health: Cheesecloth, Coffee filters, Cotton balls, Funnel, Old T-shirt, Pantyhose, Sock, Water bottle, "Swamp water" (water from an outside source like a hole in ground, puddle, lake, river, or swamp, or students can add dirt to tap water)
Middle School Comprehensive Science II v18	 01.03 Transformation of Energy: Option One: Pencil, Paper, Scanner or digital camera Option Two: Various household materials, Digital camera to create video 03.02 Layers of the Earth: Sheet of paper, Ruler, Pair of scissors, Sharpened pencil, dowel, or chopstick (any of these will work), Piece of tape 03.03 Plate Tectonics: Printer, Plain printer paper, Scissors 04.02 Advanced Landforms on Earth: Pencil/drawing utensil, Digital camera 05.01 Electromagnetic Spectrum: Optional digital camera if not using digital presentation software 05.02 Properties of Light: Clear drinking glass, Piece of white paper, Black marker or pen, Water, Rubber band, something to fasten rubber band to, such as a doorknob, Speaker, Source to play music through the speaker, Paper plate, Small bits of paper 05.03 Phases of Matter: Cardboard box with attached lid that is at least 6 centimeters deep (or an empty pizza delivery box), Aluminum foil, Clear plastic wrap, Glue stick, Tape, Stick or ruler (about 30 centimeters long to prop open your oven flap), Scissors to cut with (seek adult assistance if you need it), Graham crackers, Large marshmallows, Plain chocolate bars (thin), Aluminum foil for a pan 06.01 Biotechnology: Optional digital camera
Middle School Comprehensive Science III v18	 Lesson 02.03: Measuring cup, 1 cup of sugar, 1 small cooking pot, Heat source (stove), Kitchen scale to measure weight, Protective cooking gloves, 2 mixing spoons, Adult supervision Lesson 02.04: Measuring cup, Thermometer, Kitchen scale to measure weight, Protective gloves, 2 mixing spoons, Water (room temperature), 2 large Styrofoam cups, Container or glass, Lemonade drink mix packet with citric acid, Baking soda, Active yeast, Cup for mixing yeast, Hydrogen peroxide, Adult supervision



	 Lesson 06.02: Five pounds of dry ice, finely crushed, Insulated container to hold the dry ice, Thick gloves, Rubber mallet, Safety goggles, Plastic bowl, Large towel to protect your work area, Several 12-gallon garbage bags, Flat tray, Liter of water, 2 cups of dirt, 1 tablespoon of starch, 1 tablespoon of dark syrup or soda, 1 tablespoon of vinegar, 1 tablespoon of rubbing alcohol, Hairdryer, Flashlight, Adult supervision Lesson 06.03: Thermometer (or color-changing temperature strip), Protractor (or print out of a protractor), Large flashlight or table lamp (Cell phone flashlights or energy-efficient bulbs will not work for this activity), Adult supervision
Middle School Digital Art and Design I v22	Word processing program (Microsoft Word or similar)
Middle School Fitness Grade 6 v17	Box (cardboard, wood, or other material), Calculator, Scale, Stopwatch, Tape measure, Yardstick
Middle School Louisiana History v18	eText required; see storefront for pricing and details
Middle School Orientation to Art 2-D v5	Comic section of a newspaper, Glue stick (1), Markers (a large set that includes tints of colors. For example: blue, light blue, and dark blue), Pencils, Poster paint (any 1 color) and brush), Ruler, Scissors, Sharpie marker (1 black fine point), Sketchbook, Styrofoam trays (3) (cleaned meat tray or plate will work), Three-hole punch, Watercolor paint set, White paper (plain)
Middle School Spanish, Beginning v20	Microphone and recording device for computer
Middle School Spanish, Intermediate v21	Microphone and recording device for computer
Middle School Visual Art I v21	 Pencil Sketchbook Charcoal or oil pastels Paper towels Two-dimensional surface to draw on, like cardboard, construction, or white paper Camera or device to take photographs
Middle School Visual Art II v21	 Pencil Sketchbook Mirror Camera or device to take photographs of artwork Natural materials, like leaves, sticks, or rocks Charcoal, pastels, watercolor, or acrylic paint Ruler or straightedge Black and white paper



	Scissors
Music of the World v22	Word processing program (ex Microsoft Word)
Personal Financial Literacy v19	Calculator
Physical Science v19	 01.05 Energy Various household items to build a Rube Goldberg machine. Some examples are books, a ruler, cups, toy cars 05.05 Acids and Bases Household materials including one acid and one base. Examples might be lemon juice, fruit, dish soap, or baking soda. 06.04 Reaction Rates and Temperature Laboratory (Students may complete virtual or hands-on lab) Optional materials: antacid tablets, clear cups, water, timing device
Physics v20	3x5 cards, book, chalk, coffee stirrers, clear glass rectangular container (cake pan), droppable object, glass, graph paper, masking or cellophane tape, kitchen measuring cup, metric ruler, meter stick, objects with a circular surface (e.g. can of soup, bicycle tire, lids, drinking glass, etc.), paper (white), paper clips, pennies (200), periodic table, plastic container (small and clear), protractor, rubber band, scientific calculator, straws, string, stopwatch, string, Styrofoam cups (2), superball or other small ball, tennis ball, thermometer, washers (or paper clips), water (hot, cold, and warm)
Precalculus v21	Graphing calculator (recommended)
Spanish I-IV	Microphone and recording device for computer NOTE: For the Speech Recording Tool to function properly, the course should be opened on a non-mobile device using the Google Chrome or Firefox browser. If you cannot access the course in the way described, you may use the alternative options provided in the Speech Tools Tab on the Menu Bar.
Technology for Hospitality and Tourism v21	Any document design, graphic design, or video editing software program.