



ODYSSEYWARE®

# 2010-2011 Science Lab List

Biology

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N/A.....	11
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**BIOLOGY (2010): UNIT 1 - BIOLOGY: THE STUDY OF LIFE**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
3	Project: Characteristics of Life	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Project: The Scientific Method	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12	Project: Classifying Fruit	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13	Project: Keying Plants	Supply List: <ul style="list-style-type: none"> <li>• 6 of the following: azalea, marigold, carnation, orchid, chrysanthemum, pansy, daisy, peony, four o'clock, petunia, gardenia, poppy, geranium, rose, hydrangea, snapdragon, iris, sweet pea, lily, tulip (If actual specimens are not available, color pictures or artificial flowers may be substituted)</li> <li>• microscope</li> <li>• magnifying glass</li> <li>• razor blade</li> <li>• tweezers</li> <li>• dissecting needles</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14	Project: Keying Animals	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
16	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 2 - BIOCHEMISTRY**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
4	Experiment: Static Electricity	Supply List: <ul style="list-style-type: none"> <li>• two inflated balloons</li> <li>• piece of material (nylon, wool, or fur)</li> <li>• thread</li> <li>• nylon stocking</li> <li>• string</li> <li>• piece of white paper</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8	Experiment: Water Properties	Your goals for this assignment are to conduct an experiment to investigate water's ability to dissolve minerals and transport them and to conduct an experiment to investigate water's ability to regulate temperature.  Supply List: <ul style="list-style-type: none"> <li>• chalk</li> <li>• calcium hydroxide</li> <li>• filter paper</li> <li>• phenolphthalein</li> <li>• heat source</li> <li>• two Pyrex beakers</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10	Experiment: pH Indicators	Your goal for this assignment is to test various household products' pH levels using litmus paper.  Supply List: <ul style="list-style-type: none"> <li>• litmus paper or phenolphthalein solution</li> <li>• vinegar</li> <li>• baking soda</li> <li>• lemon juice</li> <li>• tomato juice</li> <li>• other varied household liquids</li> <li>• soup</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14	Experiment: Sugar and Starch	Supply List: <ul style="list-style-type: none"> <li>• powdered starch</li> <li>• Clinitest tablets or Dextrostik strips</li> <li>• beakers or tumblers</li> <li>• iodine</li> <li>• several fruits and vegetables</li> <li>• sugar (Karo syrup)</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
16	Experiment: Enzyme Action	Supply List: <ul style="list-style-type: none"> <li>• four jars with lids</li> <li>• crackers</li> <li>• diluted hydrochloric acid</li> <li>• cornstarch</li> <li>• ground beef (raw)</li> <li>• Dextrostik strips</li> <li>• iodine</li> <li>• small pot</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
18	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 3 - CELLS**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
2	Project: Using a Microscope	Supply List: <ul style="list-style-type: none"> <li>• one compound microscope</li> <li>• dropper</li> <li>• one slide and one cover slide</li> <li>• water</li> <li>• one short piece of brightly colored thread (about 2 mm long)</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Project: Plant and Animal Cells	Supply List: <ul style="list-style-type: none"> <li>• microscope</li> <li>• medicine dropper</li> <li>• water</li> <li>• iodine</li> <li>• toothpick</li> <li>• slide</li> <li>• cover slip</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Experiment: Osmosis	Your goal for this assignment is to explore the process of osmosis. Supply List: <ul style="list-style-type: none"> <li>• beaker</li> <li>• ring stand</li> <li>• rubber band or string</li> <li>• sucrose (table sugar)</li> <li>• thistle tube</li> <li>• semipermeable membrane (sausage skin)</li> <li>• clamp</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11	Project: Homeostasis	Your goal for this assignment is to see how your body adjusts to maintain a steady state when you exercise. Supply List: <ul style="list-style-type: none"> <li>• thermometer</li> <li>• mirror</li> <li>• clock or stopwatch</li> <li>• paper and pen</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 4 - CELL ENERGY**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
3	Project: Energy Laws	Your goal for this assignment is to write about the first two laws of thermodynamics or energy.  Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	Experiment: Photosynthesis Reactions	Your goal for this assignment is to make a terrarium in order to grow some green plants and formulate the different processes that are taking place during photosynthesis.  Supply List: <ul style="list-style-type: none"> <li>• large glass or Plexiglas container</li> <li>• washed gravel, sand, and/or rock</li> <li>• aquarium charcoal</li> <li>• potting soil</li> <li>• water</li> <li>• a few assorted plants</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Project: Respiration in Muscles	Your goal for this assignment is to conduct an activity that involves oxygen and the cellular respiration process.  Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Project: Energy Flow in Ecosystems	Your goal for this assignment is to identify producers, consumers, and predators in an ecosystem.  Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 5 - CELL DIVISION AND REPRODUCTION**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
3	Project: Reproduction Research	Your goal for this assignment is to conduct research and present information on a sexual reproducing organism and an asexual reproducing organism. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	Project: Fragmentation	Supply List: <ul style="list-style-type: none"> <li>• a small glass jar or culture jar</li> <li>• a razor blade, scalpel, or very sharp knife</li> <li>• a dissection microscope or a good hand lens</li> <li>• eight or ten individual Planaria (flatworms)</li> </ul> <ul style="list-style-type: none"> <li>• a small piece of fresh liver (about 2 cm) placed on a side of the jar in fresh water (depth of water should equal the height of the liver)</li> <li>• blunt-ended tweezers or forceps</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Project: Stages of Mitosis	Your goals for this assignment are to identify the prophase, metaphase, anaphase, and telophase stages in both a plant and animal cell and to describe what occurs in each stage. Supply List: <ul style="list-style-type: none"> <li>• microscope</li> <li>• prepared slide of onion root stained to show chromosomes</li> <li>• prepared slide of roundworm stained to show chromosomes</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
13	Project: Stem Cell Research	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 6 - SEMESTER REVIEW AND EXAM**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>
N/A	N/A	N/A

**BIOLOGY (2010): UNIT 7 - GENETICS AND HEREDITY**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
2	Project: Building DNA	Your goal for this assignment is to build a DNA molecule by placing its basic parts together like pieces of a puzzle. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4	Project: Karyotypes	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	Experiment: Molecular Genetics	Your goal for this assignment is to determine to what extent the genotype and environment influence the phenotype. Supply List: <ul style="list-style-type: none"> <li>• 60 radish seeds</li> <li>• 2 Petri dishes or flat covered containers</li> <li>• sand-peat mixture</li> <li>• medicine dropper</li> <li>• box to cover 1 Petri dish</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9	Project: Punnett Squares	Your goal for this assignment is to predict the genotypes and phenotypes of a fictional family using a Punnett Square. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Project: Testing Probability	Your goal for this assignment is to experiment with probabilities. Supply List: <ul style="list-style-type: none"> <li>• 2 coins</li> <li>• cardboard shoebox</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14	Project: Natural Selection	Your goal for this assignment is to simulate natural selection. Supply List: <ul style="list-style-type: none"> <li>• construction paper in four different colors</li> <li>• scissors</li> <li>• blanket with a colorful pattern (a sheet or comforter will also work)</li> <li>• plastic cup</li> <li>• plain paper</li> <li>• pencil or pen</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17	Project: Morphology	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
19	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 8 - MICROBIOLOGY AND BIODIVERSITY**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
4	Project: Pathogens—Bacteria or Virus?	Your goal for this assignment is to differentiate between bacteria and viruses. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Project: Protozoan Cultures	Your goal for this assignment is to find the following protozoan cultures: amoeba, paramecium, and euglena. Supply List: <ul style="list-style-type: none"> <li>• pond water (water from ditches and lakes may be suitable; water with green scum or algae is best)</li> <li>• microscope</li> <li>• dropper</li> <li>• slide</li> <li>• slide cover</li> <li>• cotton ball</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	Project: Algae Cultures	Your goal for this assignment is to see the diversity of algae specimens. Supply List: <ul style="list-style-type: none"> <li>• 6-8 jars—pint or quart size (Use jars that can be thrown away upon completion of the exercise.)</li> <li>• 2 small plastic bags for collecting bark with algae</li> <li>• a dipper tied to a long pole (very useful in collecting from ponds and lakes)</li> <li>• 3-4 slides—at least 2 plain slides and 1 depression slide (You can also use a plain slide and make a well or depression with petroleum jelly.)</li> <li>• 3-4 cover slips</li> <li>• collected cultures</li> <li>• an eye dropper for adding water</li> <li>• microscope</li> <li>• paper and pencil</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11	Project: Fungi Cultures	Your goals for this assignment are to examine some fungi and to make a collection of fungi consisting of molds, mildew, and yeast. Supply List: <ul style="list-style-type: none"> <li>• molds on jelly, fruits, and bread*</li> <li>• baker's yeast</li> <li>• sugar</li> <li>• Roquefort cheese (blue cheese)—keep refrigerated**</li> <li>• Camembert cheese—keep refrigerated**</li> <li>• plastic disposable tumbler</li> <li>• stirring spoon</li> <li>• needle</li> <li>• pair of tweezers</li> <li>• two clean microscopic slides</li> <li>• hand lens or strong magnifying glass</li> <li>• microscope</li> <li>• two cover slips</li> <li>• a yeast stain: methylene blue safranin, or similar stain</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
16	Project: Plant and Animal Research	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
18	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 9 - PLANTS**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
3	Experiment: Stem Transport	Your goal for this assignment is to observe the xylem and phloem at work in a stalk of celery. Supply List: <ul style="list-style-type: none"> <li>• celery stalk with leaves</li> <li>• food coloring (red or blue)</li> <li>• dropper</li> <li>• microscope</li> <li>• microscope slide</li> <li>• water</li> <li>• tall jar or glass</li> <li>• sharp knife</li> <li>• metric ruler</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Experiment: Flower Dissection	Your goal for this assignment is to observe the parts of a flower and review the reproduction process in angiosperms. Supply List: <ul style="list-style-type: none"> <li>• magnifying glass or hand lens</li> <li>• toothpick</li> <li>• black paper or very dark material</li> <li>• fresh flower</li> <li>• knife</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8	Experiment: Seed Dissection	Your goal for this assignment is to observe a plant embryo inside a seed. Supply List: <ul style="list-style-type: none"> <li>• magnifying glass or hand lens</li> <li>• lima beans or corn seeds</li> <li>• knife</li> <li>• jar of water</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	Experiment: Cones	Your goal for this assignment is to examine male and female pine cones. Supply List: <ul style="list-style-type: none"> <li>• male pine cone</li> <li>• female pine cone</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12	Experiment: Plant Growth	Supply List: <ul style="list-style-type: none"> <li>• water</li> <li>• stem cutting of growing plant</li> <li>• tall baby food jar</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
16	Project: Plant Usage	Your goal for this assignment is to identify various uses of plants in your home. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
18	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 10 - ANIMALS AND HUMANS**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
2	Experiment: Animal Cells and Tissues	Your goal for this assignment is to review slides of specialized animal cells and discuss their function(s). Supply List: <ul style="list-style-type: none"> <li>• prepared slides of erythrocytes, leukocytes, muscle cells, and nerve cells</li> <li>• microscope</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Project: Animal Organ Systems	Your goal for this assignment is to choose just one vertebrate animal and research one of its organ systems on your own. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	Experiment: Heart Rate	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10	Experiment: Mealworm	Your goal for this assignment is to observe an insect life cycle. Supply List: <ul style="list-style-type: none"> <li>• baby-food jar with lid</li> <li>• bran flakes or oatmeal</li> <li>• potato</li> <li>• magnifying glass</li> <li>• mealworm</li> <li>• knife</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11	Project: Animal Study	Your goal for this assignment is to choose a type of mammal or insect and write a report about it. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15	Experiment: Digesting Fats	Supply List: <ul style="list-style-type: none"> <li>• two test tubes with stoppers or two tall thin bottles (vials) with lids</li> <li>• twenty drops of cooking oil</li> <li>• four drops of liquid soap</li> <li>• water</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
16	Experiment: Carbon Dioxide	Your goal for this assignment is to test for carbon dioxide and watch what happens when you exhale carbon dioxide into limewater. Supply List: <ul style="list-style-type: none"> <li>• clear limewater</li> <li>• two soda straws</li> <li>• hand air pump</li> <li>• two small jars (preferably food jars)</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
17	Project: Heart or Lung Study	Your goal for this assignment is to complete the following activity to further your understanding of either the heart or the lungs. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
19	Project: The Immune System	Your goal for this assignment is to explore the immune system further. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
21	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 11 - ECOLOGY AND THE ENVIRONMENT**

<b>Assignment Number</b>	<b>Assignment Title</b>	<b>Project Summary and Supply List</b>	<b>Video Demo</b>
3	Project: Symbiosis	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Project: Food Webs	Your goal for this assignment is to construct a food web. Supply List: <ul style="list-style-type: none"> <li>• poster board</li> <li>• colored pencils or markers</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8	Project: Habitats	Your goal for this assignment is to create a habitat for organism(s). Supply List: <ul style="list-style-type: none"> <li>• gallon jar (or other large, glass container)</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10	Project: Local Ecosystems	Your goal for this assignment is to examine and explore a local ecosystem. Supply List: <ul style="list-style-type: none"> <li>• outdoor area like a field or garden</li> <li>• string</li> <li>• magnifying glass</li> <li>• thermometer</li> <li>• popsicle sticks</li> <li>• paper</li> <li>• small gardening tools</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Project: Biomes	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13	Experiment: Biodegradability	Your goal for this assignment is to determine the biodegradability of different materials. Supply List: <ul style="list-style-type: none"> <li>• shovel or trowel</li> <li>• compost bin (can be purchased from a local garden or hardware store)</li> <li>• dirt</li> <li>• twigs and branches</li> <li>• grass clippings or leaves</li> <li>• food garbage (such as banana peels and apple cores)</li> <li>• plastic cup</li> <li>• newspaper</li> <li>• aluminum foil</li> <li>• tissues</li> <li>• paper towels</li> <li>• tin can</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14	Project: Stewardship	Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17	Project: Ethics in Biotechnology	Your goal for this assignment is to write a persuasive essay about an ethical question in biotechnology. Supply List: N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
19	Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**BIOLOGY (2010): UNIT 12 - SEMESTER REVIEW AND EXAM**

<b><i>Assignment Number</i></b>	<b><i>Assignment Title</i></b>	<b><i>Project Summary and Supply List</i></b>
N/A	N/A	N/A

**BIOLOGY (2010): UNIT 13 - FINAL EXAM**

<b><i>Assignment Number</i></b>	<b><i>Assignment Title</i></b>	<b><i>Project Summary and Supply List</i></b>
N/A	N/A	N/A