**Biology Lab WS 2021**

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**\*\*Materials need to be ordered ahead of the semester\*\***

Every student needs to order the following:

Bacteria growing kit (or you can get agar and culture petri dishes separately for a bit less):

<https://www.stevespanglerscience.com/store/bacteria-growing-kit.html?keyword=&creative=458090703772&gclid=CjwKCAiAn7L-BRBbEiwAl9UtkIH079gUWViN8Lx0HkTZjXpatkruoXOtdfeOf-JdUf0ABhyyvoJXcRoCVZEQAvD_BwE>

Gloves (make sure you order the correct SIZE for your student, S or M are common sizes for high schoolers):

<https://www.amazon.com/dp/B0894W1N9Z/ref=twister_B088WJL6KX?_encoding=UTF8&psc=1>

Items from a regular store:

Carrot, frozen or fresh corn kernels, peanuts (unless allergic), celery stalk, stem of lily or tulip, potted plant with parallel veined leaves (optional), potted plant with flowers (optional), red or blue food coloring

Tape

A wide ruled notebook to write notes during class and for homework

Pencils, eraser, colored pencils

Specimens: Three options below – each student choses one:

*Specimens – Option 1:*

* Order all items below and take part in all dissections:

Dissection kit (not including heart and lab manual): <https://www.homesciencetools.com/product/animal-specimens-set-of-9-with-pig/>

Sheep heart:

<https://www.homesciencetools.com/product/heart-sheep-specimen/>

Lab manual:

<https://www.qualitysciencelabs.com/biology-labs/qsl-biology-lab-manual/>

Safety Goggles:

<https://www.homesciencetools.com/product/chemical-safety-goggles-anti-fog-adult/>

Dissection kit:

https://www.homesciencetools.com/product/advanced-dissecting-tools/

Dissection mat/pan:

<https://www.homesciencetools.com/product/dissecting-pan-10-x-7/>

Magnifying glass:

<https://www.homesciencetools.com/product/magnifying-glass-2-inches-3x/>

*Specimens – Option 2:*

* Pick and choose which items to dissect. Choose and order from the list below. Observe the other dissections (performed by teacher):

Worm:

<https://www.homesciencetools.com/product/earthworm-8-10-inches-plain-specimen/>

Grasshopper:

<https://www.carolina.com/preserved-grasshoppers/preserved-louisiana-lubber-grasshopper-latex-injected-giant-2-3/225580.pr?question=grasshopper>

Crayfish:

<https://www.homesciencetools.com/product/crayfish-4-6-inches-plain-specimen/?gclid=CjwKCAiAn7L-BRBbEiwAl9UtkMiNslJ_0hx5xXI9FiG9W8vEhOl_ra65Ofu0YXavMMurVEk4hVqkGhoCzokQAvD_BwE>

Fish:

<https://www.homesciencetools.com/product/perch-medium-7-9-inches-plain-specimen/>

Cow eye:

<https://www.homesciencetools.com/product/cow-eye-specimen/>

Frog:

<https://www.homesciencetools.com/product/frog-grass-3-4-inches-plain-specimen/>

Heart:

<https://www.homesciencetools.com/product/heart-sheep-specimen/>

Biology Lab manual:

<https://www.qualitysciencelabs.com/biology-labs/qsl-biology-lab-manual/>

Safety Goggles:

<https://www.homesciencetools.com/product/chemical-safety-goggles-anti-fog-adult/>

Dissection kit:

https://www.homesciencetools.com/product/advanced-dissecting-tools/

Dissection mat/pan:

<https://www.homesciencetools.com/product/dissecting-pan-10-x-7/>

Magnifying glass:

<https://www.homesciencetools.com/product/magnifying-glass-2-inches-3x/>

*Specimens – Option 3:*

* Only observe the dissections. No dissection items need to be ordered (you still need to order bacteria kit and gloves).

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| **Winter/ Spring Semester 2021** | | | | |
|  | **Week** | **What are we learning?** | | **Materials needed:** |
| **Week 1**  1/14 | | Plant lab I – categorizing plants | | Picked leaves from outside (6-12 different kinds)  Tape  Large white paper |
| **Week 2**  1/28 | | Plant lab II – monocot and dicot | | Carrot  Frozen or fresh corn kernels  Peanuts (unless allergic)  Celery stalk  Stem of lily or tulip  Potted plant with parallel veined leaves (optional)  Potted plant with flowers (optional)  Red or blue food coloring  Scalpel  Magnifying glass  150ml beaker or cup  Water |
| **Week 3**  2/11 | | Bacteria culture and classification lab | | Growing bacteria kit  Sharpie pen  Mixing bowl  Cup  Microwave |
| **Week 4**  2/25 | | Dissection: Earthworm | | Earthworm (preserved)  Dissection kit  Dissection pan  Goggles  Lab gloves  Pins (should be included in dissection kit) |
| **Week 5**  3/11 | | Dissection: Crayfish | | Crayfish (preserved)  Dissection kit  Dissection pan  Goggles  Lab gloves  Magnifying glass  Small bowl of water |
| **Week 6**  3/25 | | Dissection: Grasshopper | | Grasshopper (preserved)  Dissection kit  Dissection pan  Goggles  Lab gloves  Magnifying glass  Pins (should be included in dissection kit) |
| **Week 7**  4/22 | | Dissection: Fish | | Fish (usually perch, preserved)  Dissection kit  Dissection pan  Goggles  Lab gloves  Magnifying glass  Small bowl of water |
| **Week 8**  4/29 | | Dissection: Frog | | Frog (preserved)  Dissection kit  Dissection pan  Goggles  Lab gloves  Magnifying glass  Measuring tape or ruler |
| **Week 9**  5/6 | | Dissection: Cow Eye | | Cow eye (preserved)  Dissection kit  Dissection pan  Goggles  Lab gloves  Magnifying glass |
| **Week 10**  5/20 | | Dissection: Sheep Heart | | Sheep heart (preserved)  Dissection kit  Dissection pan  Goggles  Lab gloves  Magnifying glass |
|  | | | **CLP Extravaganza – May TBD** | |