**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](https://www.amazon.com/dp/B0894W1N9Z/ref%3Dtwister_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)TapeLarge white paper |
| **Week 2**1/28 | Plant lab II – monocot and dicot  | CarrotFrozen or fresh corn kernelsPeanuts (unless allergic)Celery stalkStem of lily or tulip Potted plant with parallel veined leaves (optional) Potted plant with flowers (optional)Red or blue food coloringScalpelMagnifying glass150ml beaker or cupWater |
| **Week 3**2/11 | Bacteria culture and classification lab | Growing bacteria kit Sharpie penMixing bowl CupMicrowave |
| **Week 4**2/25 | Dissection: Earthworm | Earthworm (preserved)Dissection kitDissection panGogglesLab gloves Pins (should be included in dissection kit) |
| **Week 5**3/11 | Dissection: Crayfish | Crayfish (preserved)Dissection kitDissection panGogglesLab gloves Magnifying glassSmall bowl of water |
| **Week 6**3/25 | Dissection: Grasshopper | Grasshopper (preserved)Dissection kitDissection panGogglesLab gloves Magnifying glassPins (should be included in dissection kit) |
| **Week 7**4/22 | Dissection: Fish | Fish (usually perch, preserved)Dissection kitDissection panGogglesLab gloves Magnifying glassSmall bowl of water |
| **Week 8**4/29  | Dissection: Frog | Frog (preserved)Dissection kitDissection panGogglesLab gloves Magnifying glassMeasuring tape or ruler |
| **Week 9**5/6 | Dissection: Cow Eye | Cow eye (preserved)Dissection kitDissection panGogglesLab gloves Magnifying glass |
| **Week 10** 5/20 | Dissection: Sheep Heart | Sheep heart (preserved)Dissection kitDissection panGogglesLab gloves Magnifying glass |
|  | **CLP Extravaganza – May TBD** |