



Microscope Lab Workshop

Cost: \$165

Time: 9:00 – 2:00

Friday Dates: Oct. 9, 2020 | Jan. 22, 2021 | Mar. 12, 2021

Instructor: Karen Borg

** workshops limited to 10 current high school students*

The workshop is designed for high school students, who have, or are taking biology. This class complements the Apologia Biology course. If students are using the Apologia textbook, the Student Notebook is not required. Students who are using a different textbook are also welcome to take the Microscope Workshop. All handouts and lab supplies will be provided. If the student completes all three labs, a Certificate of Completion will be presented along with a Summary Sheet of all labs, at the end of the third class.

Each lab will be introduced to the entire class along with the required lab techniques needed. Once that is done, students must be able to self-direct their microscope work. The instructor will be available for assistance during this time. Once a section is completed, new instruction will be given, the class will move on to another set of labs, and so on and so on. The first class has the most time directed to learning how to properly use a microscope, and all of the techniques involved, so fewer labs are accomplished on the first day.

Students need to bring food that can be snacked on in between labs. Cell phones must be turned off while in class. Pre-registration required. Apologia lab numbers are noted in parenthesis.

| Date | Labs Covered During This Class Period |
|---------|---|
| Oct. 9 | Microscope Anatomy Power of Magnification Introduction to the Microscope (1:2) Pond Life: Part A, B, C (2:1-3) Molds (4:3) |
| Jan. 22 | Subphylum Protozoa (3:2) Yeast & Fermentation Process (4:2) Subkingdom Algae (3:3) Cell Structure I (6:1) Phylum Basidiomycota (4:1) Cell Structure II (6:2) |
| Mar. 12 | Mitosis (7:2) Observation: Spicules of a Sponge (11:1) Flower Anatomy (15:1) Observation: Hydra (11:2) Bird Embryology (16:1) Observation: Planarian (11:4) Cross Sections: Roots, Stems, and Leaf (14:3) |



covenant home school resource center

602.277.3497 1117 East Devonshire, Phoenix, AZ 85014 chsrc.org

Dissection Lab Workshop

Cost: \$165

Time: 9:00 – 2:00

Saturday Dates: Oct. 10, 2020 | Jan. 23, 2021 | Mar. 13, 2021

Instructor: Karen Borg

** workshops limited to 10 current high school students*

The workshop is designed for high school students, who have, or are taking biology. This class complements the Apologia Biology course. If students are using the Apologia textbook, the Student Notebook is not required. Students who are using a different textbook are also welcome to take the Microscope Workshop. All handouts and lab supplies will be provided. If the student completes all three labs, a Certificate of Completion will be presented along with a Summary Sheet of all labs, at the end of the third class.

Each lab will be introduced to the entire class along with the required lab techniques needed. Once that is done, students must be able to self-direct their microscope work. The instructor will be available for assistance during this time. Once a section is completed, new instruction will be given, the class will move on to another set of labs, and so on and so on. The first class has the most time directed to learning how to properly use of dissection tools, and all of the techniques involved, so fewer labs are accomplished on the first day. The sheep eye & brain can also count for labs if using a book that included human anatomy.

Students need to bring food that can be snacked on in between labs. Cell phones must be turned off while in class. Pre-registration required. Apologia lab numbers are noted in parenthesis.

| Date | Labs Covered During This Class Period |
|---------|--|
| Oct. 10 | Safety standards Introduction to dissection tools Introduction to techniques using different mediums Cross Sections of Roots, Stems, & Leaves (Mod. 14) Flower Anatomy (Mod. 14) |
| Jan. 23 | Mushrooms (Mod. 4) Earthworm (Mod. 11) Sea Star (Mod. 11) Grasshopper (Mod. 11) Crayfish (Mod. 11) |
| Mar. 13 | Sheep Eye (Mod. 13) Sheep Brain (Mod. 13) Fish (Mod. 13) Frog (Mod. 13) |