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WEB RESOURCES FOR THE RIOT AND THE DANCE LAB MANUAL

# COMPLETE RIOT MATERIALS LIST

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*You can find weekly materials lists at the beginning of each lab in the Lab Manual, but some people prefer to buy all materials at once. See the full list below. Refer to the Lab Manual for any ahead-of-time preparation or special notes. Email us at [service@canonpress.com](mailto:service@canonpress.com) if you have any trouble!*

## WEBSITES FOR BIOLOGICAL MATERIALS

- *Carolina Biological Supply Company*  
<http://www.carolina.com/>
- *Bio Corporation*  
<http://www.biologyproducts.com/>
- *Ward's Science*  
<https://wardsci.com/store/>

### LAB 1

- Compound microscope
- Letter 'e' slide
- Glass slides and cover slips
- Clear plastic metric ruler

### LAB 2

- Glass slides and cover slips\*
- Methylene blue for staining
- Toothpicks
- *Elodea* (Anacharis) water plant sprig
- The protozoan *Amoeba proteus*
- Your cheek should be available

\* Grayed-out text is an item that was assigned for a previous lab and shouldn't need to be purchased again (e.g., you don't need to buy a new box of rubber gloves for every lesson). Many items are common (e.g., a toothpick, Sharpie, or water) but are included for reference anyways.



### **LAB 3**


- A roll of 1 inch wide dialysis tubing
- String
- Plastic droppers
- Metric balance scale or kitchen scale that can weigh ounces
- One bottle of corn syrup (Karo)
- Three bowls that can hold up to two cups

### **LAB 4**

- 100 yellow and 30 red pop beads
- Tea kettle to boil water
- 4 tall clear glasses
- 2 tea bags
- 1 tablespoon of table salt
- Two fresh crisp celery stalks (both 3 inches long and roughly equal in width)
- Microscope and 1 slide
- Fresh Elodea sprigs soaking in fresh water
- A small container with a very flat bottom such as a casserole dish or shoebox lid

### **LAB 5**

- Water
- 1 potato
- Blender

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- Wire mesh strainer
  - A few crystals of copper sulfate ( $\text{CuSO}_4$ )
  - 1 bottle of hydrogen peroxide
  - 10 test tubes
  - Metric ruler
  - Test tube holder
  - A few drops of distilled white vinegar
  - A graduated dropper (that can at least dispense about 3 ml)
  - Stopwatch

### **LAB 6**


- A computer to watch online videos

### **LAB 7**

- A computer to watch online videos

### **LAB 8**

- A computer to watch an online videos
- A 6-foot light-colored extension cord (this will get marked up, but not ruined)
- A black Sharpie pen
- 6 12-inch pipe cleaners—3 white and three other colors
- A 1¼-inch binder clip

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- A white ink marker (or a sticker or masking tape for a label)
  - 1 Fisher-Price Snap-Lock bead
  - Double-sided tape.
  - 20 pop beads
  - A wiffle ball
  - Scissors

### LAB 9

- A computer to watch an online video.
- 100 yellow and 100 red pop beads
- A shoebox—preferably plain so you're not distracted by the Nike, Adidas, etc., emblazoned on the box. (A logo makes it harder to pretend the box is a bacterial cell.)
- Black Sharpie
- Scissors

### LAB 10

- A computer to watch online videos.
- Compound microscope
- Onion (*Allium*) root tip slide
- 12 thin skeins of embroidery floss: 2 light blue, 2 dark blue, 2 pink, 2 red, 2 light green, 2 dark green
- Double-sided tape

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- Two small, clear wastepaper bags

### **LAB 11**


- A computer to watch an online video.
- Compound microscope
- Lily anther meiosis slide
- Same twelve thin skeins of embroidery floss used in the last lab
- Four clear trash bags

### **LAB 12**

- Paper and pen to work various crosses using Punnett squares

### **LAB 13**

- A computer to watch an online video.
- Pressed and mounted leaves (unless fresh are available) of the following kinds: maple, lupine, black locust, mountain ash, beech, cattail, and magnolia (if actual leaves are unavailable use online images). Have each plant's identity available (but not visible to the student) so they can know if they keyed it correctly.

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- Preserved centipede, millipede, beetle, butterfly, dragonfly, grasshopper, and roly-poly.

## LAB 14


*Suggested vendor: Carolina Biological Supply Co.*

- Compound microscope
- Glass slides and cover slips
- Spirogyra (living)
- Protozoa mixture (living)
- Protoslo®

## LAB 15

*Suggested vendor: Carolina Biological Supply Co.*

- Compound microscope
- *Rhizopus* with sporangia and zygosporangia (prepared slide)
- Moldy bread (prepare a week or more in advance)
- Cup fungus (*Peziza*) (prepared slide)
- Dried ascomas—cup fungus and morel
- *Penicillium* (prepared slide)
- Mushroom (*Coprinus*) (prepared slide)
- Variety of dried basidiomas (purchased or personally collected)—mushroom, bolete, shelf fungus, puffball, earthstar, coral fungus (Don't worry if you don't have



them all. It's just good to get a sense of the diversity of forms out there.)

- Lichen (*Physcia*) (prepared slide)
- Crustose, foliose, and fruticose lichens

## LAB 16


*Suggested vendor: Carolina Biological Supply Co.*

- Compound microscope
- Depression slides
- Cover slips
- *Scypha* longitudinal section (prepared slide)
- Bath sponge (dead skeleton)
- Spongin (prepared slide)
- Spicules (prepared slide)
- *Hydra* longitudinal section (prepared slide)
- Live *Hydra*
- Live *Daphnia*
- Preserved jellyfish
- Preserved sea anemone
- Coral skeleton

## LAB 17

*Suggested vendor: Carolina Biological Supply Co.*

- Compound microscope
- Live *Planaria*

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- Empty Petri dish (or other shallow dish)
  - Sheep liver fluke whole mount (prepared slide)
  - *Dipylidium canium* scolex and proglottids (prepared slide)
  - Live vinegar eels (*Turbatrix aceti*)
  - Live earthworm
  - Preserved leech
  - Preserved *Nereis* (clamworm)

## LAB 18

*Suggested vendor: Carolina Biological Supply Co.*


- Basic dissection kit (scalpel, dissection needle, dissection probe, scissors, and tweezers)
- Dissection tray / latex gloves
- Empty petri dish (or other shallow dish)
- Preserved clam (4 inches long)
- Live leopard slug
- Preserved squid or octopus
- An assortment of different bivalve shells, gastropod shells, and a chambered nautilus shell.

## LAB 19

*Suggested vendor: Carolina Biological Supply Co.*

- Stereoscope



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- Basic dissection kit / latex gloves
  - Preserved insects from three major insect orders: Orthoptera, Coleoptera, and Lepidoptera (grasshopper, ground beetle, and butterfly)
  - Preserved large millipede
  - Preserved large centipede
  - Preserved large spider
  - Preserved crayfish

## LAB 20


*Suggested vendor: Carolina Biological Supply Co.*

- Stereoscope
- Glass dish
- Dissection tray / latex gloves
- Preserved sea star
- Preserved brittle star
- Preserved sea urchin
- Sea urchin test (shell)
- Preserved sea cucumber

## LAB 21

*Suggested vendor: Carolina Biological Supply Co.*

- Stereoscope
- Dissection tray / latex gloves
- Preserved lamprey (Agnatha)

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- Preserved dogfish shark (Class Chondrichthyes)
  - Preserved perch (Class Osteichthyes)

## LAB 22


*Suggested vendor: Carolina Biological Supply Co. If live amphibian or reptile pets can be brought in, they are always better than preserved examples (unless they're moving too much).*

- Compound microscope
- Frog skin microscope slide
- Stereoscope
- Dissection tray / latex gloves
- Preserved salamander—*Necturus* (Class Amphibia)
- Preserved frog—*Rana* (Class Amphibia)
- Preserved lizard—*Anolis* (Class Reptilia)
- Preserved turtle (Class Reptilia)

## LAB 23

*Suggested vendor: Carolina Biological Supply Company.*

- Compound microscope
- Stereoscope
- Fresh moss with sporangia
- Moss sporangium (capsule slide)
- Moss protonema slide
- Moss antheridia slide

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- Moss archegonia slide
  - Fresh fern leaves with sori
  - Fern leaflet with sporangia slide
  - Fern prothallus slide

## LAB 24

*Suggested vendor: Carolina Biological Supply Co.*

- Compound microscope
- Stereoscope
- Male pine cone slide
- Female pine ovule (with megagametophyte) slide
- Lily anther cross section (mature pollen)
- Lily ovary (with mature ovules) cross section slide
- Fresh pine twig with female cones on it
- Fresh tulip or lily flower

## LAB 25

- A computer to watch an online video