

# iBook Directions

Teacher Pioneers  
The Science House, NC State University

## Materials:

- MacIntosh iBook computer and power adapter
- LabPro interface and power adapter
- USB cable
- Probeware
- AirPort
- CD or printer (optional)

## Set-up Procedures - LabPro:

1. Attach power adapter to computer (right side) and to electrical outlet.
2. Attach power adapter to LabPro interface and to electrical outlet.
3. Attach LabPro to computer (USB Port 1 on left side of computer) with USB cable.
4. Connect desired probe to appropriate port on LabPro. (Use the following probes in digital ports: motion detector, photogates). All other probes should be connected to lowest channels.)
5. Press *Quick Setup* on the Lab Pro. This will clear the memory of any old lab data in the Lab Pro.
6. Open computer (long button on front of computer).
7. Turn the computer on (round button on top right of computer above keyboard).

## Set-up Procedures - LAN:

A LAN is a Local Area Network. Our LAN connects the 11 laptops (to each other only) wirelessly using the AirPort.

1. Plug the AirPort into the wall. All of the computers need to be within about 150 feet of the AirPort.
2. Turn on the computers you wish to use including the Teacher Computer with the blue sticker. It is important that this computer be on and awake.
3. From the top menu choose *Go and Connect to Server*. Wait until the computer recognizes the server. This may take up to a minute. If it times out you may want to try this step again.
4. Click on the server called *Science House Teacher Computer* and choose *Connect*.
5. Click the *Guest* radio button and then *Connect*.
6. Choose *ncstate* and *Connect* again. A globe with *ncstate* below it should appear on your desktop. This lets you know that you are connected to the network.

Now when you save a file on the student computers and drag it into the Teacher Folder it will copy into the Teacher Folder on the Teacher Computer so that you can burn it to a CD.

## Experiment Procedures:

- 1) Using the trackpad, move the cursor toward the bottom of the screen.
- 2) On the toolbar that pops up, double click the LoggerPro icon.
- 3) If a *Setup Interface* box appears, click SCAN. Click OK in the next box.
- 4) Click on *File* on the top toolbar.
- 5) Select *Open*.
- 6) On the uppermost menu bar of the window that appears select the desired Vernier book, experiment and probe.
- 7) Press Collect to collect data.
- 8) When appropriate data has been collected, add a title and labels to your graph. Add your names also.
- 9) To save your file on a CD, first save the file to the computer desktop. Name your file using last names of group members. Then, drag your file to the *Teacher's Folder* on the desktop. Your file will be beamed to the computer labeled "Teacher". A CD can then be burned from the Teacher computer when all student files have been collected. (F12 opens the CD player.)
- 10) To turn the computer off, Click on the apple on the top toolbar. Select *Shutdown*.

## Troubleshooting:

**Problem:** Student computer not finding the Teacher computer (step 3 in LAN Set-up)

**Solution:** Make sure the AirPort is plugged into a working socket and the Teacher Computer is awake. Choose cancel and repeat step 3. Each time you plug in the AirPort it generates a new ID number. Sometimes it takes the student computer a while to find it.

**Problem:** Files not appearing in the Teacher Folder

**Solution:** Double click on the Teachers' Folder icon to refresh the contents. Make sure that students are not giving 2 files the same name. This will cause one group to overwrite another group's file.

**Problem:** LoggerPro does not recognize the LabPro.

**Solution:** First unplug and replug the USB connectors on the computer and LabPro. A green light should be on in the middle of the LabPro. Make sure the LabPro has power either through batteries or the AC adaptor. If these do not work press the Start/Stop button a few times.