

Homework:9/12/01

0. Finish the worksheets from our workshop.

1. visit the AC station in the Fleet. Hook up the circuit so the light-bulb is flashing.

Draw a picture of the circuit with just the light bulb and the power source (i.e.. ignore the speaker and oscilloscope).

Describe the similarities and differences to the DC battery / bulb circuit that we made.

List three differences (hint compare what is happening with the light bulbs):

What are the relations among the oscilloscope trace, the light bulb and speaker?

Find another exhibit at the Fleet which has a complete circuit and draw a schematic. Label power sources, wires, and resistors. Is this an AC or DC power source?

2. Come up with one or two problems of your own which will assess whether someone understands the concepts of circuits, series and parallel, and DC power sources? (hint: you may want to use your battery and bulb kits).