

Activity 4 A

Wiring the Circuit Board



FOR YOU TO DO

1. **Wiring with Socket Board:** Have the students do **Stretching Exercise #3**. Put the drawing of the wiring on the board. Now have the students wire up a simple circuit, such as a bulb circuit.
2. **Jumping Sand:** Give each group a small amount of play sand to place on the speaker when it is sounding a tone. Ask the students what their observations tell them about sound and vibration. Also, have them feel their throats as they make sounds of various pitches.
3. **Sound Frequency:** Hook up an oscilloscope to the speaker leads. Measure the frequency for various values of the capacitor and the resistors.



Check diagrams before students build the circuit. Watch for short circuits that can cause wires to get hot.



Caution students to keep the jumping sand away from their eyes.

The Circuit Board

