

Name:

Date:

Class:

Part 6B: Arduino Touch-Activated Buzzer Challenge

Introduction:

In this activity you will construct a circuit and program the Arduino to connect the touch sensor, LED, and buzzer. The goal is to have the LED flash and buzzer sound when you place your finger on the touch sensor.

Required materials:

- laptop with USB port
- Arduino Uno
- USB 2.0 cable, type A/B
- LED
- 1 100 ohm and 2 220 ohm resistors
- mini breadboard
- Piezo buzzer
- touch sensor
- 5 jumper wires

Setup of circuit:

- Use your previous experiences of wiring the buzzer and the touch sensor for this challenge.
- Be sure to use the 100 ohm resistor for the buzzer and the 220 ohm resistors for the touch sensor and the LED.
- All of your components will be connected into the right/digital side of the Arduino.
- The middle connection from the touch sensor will still connect to the 5V pin on the left side, as before.

Code for connecting touch sensor, LED, and buzzer through Arduino:

You will need to combine the code you have saved for the touch sensor (with single LED) and buzzer.

Check off:

Once you have a functional touch-activated buzzer, please get it checked off by the teacher. Way to go!!