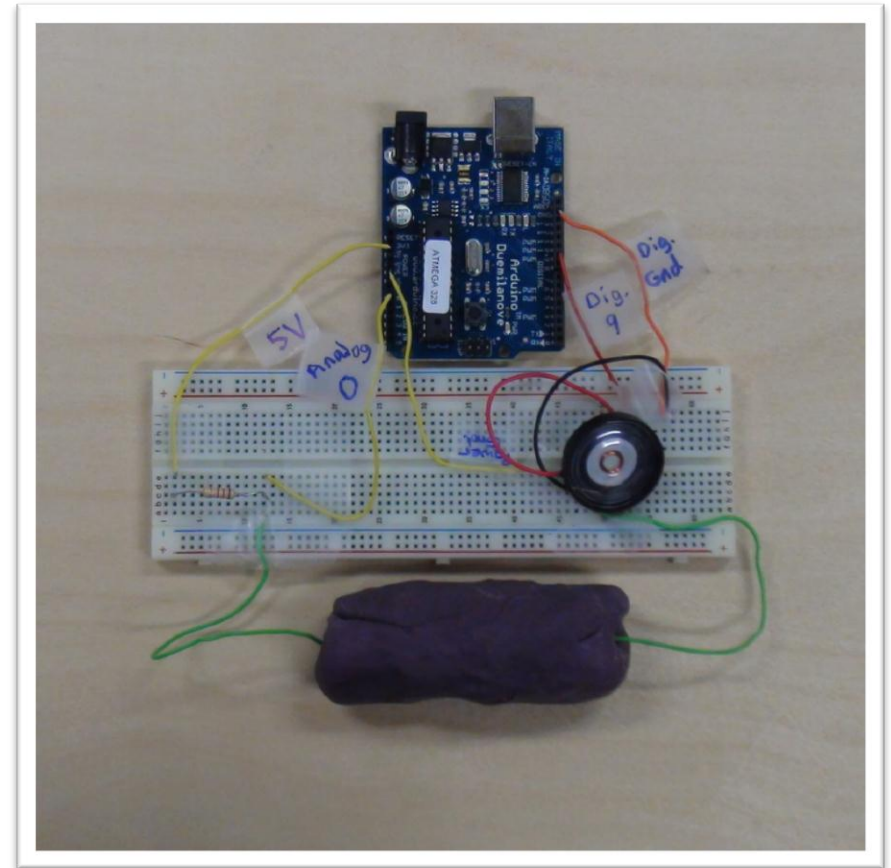# Squishy Sound

Squishy Circuits can be coupled with microprocessors, such as an Arduino board, to create advanced projects. For this example, we created a circuit that alters a pitch depending on the resistance of the dough.

Squishy Sound - Code

```
//Squishy Sound - Code written by Sam Johnson and Modified by Matthew Schmidtbauer for the
Squishy Circuits Project

//Port Definitions and Variable Declarations:
#define SpeakerOutput 9

int analog = 0; // Common resistor connected to analog pin 0 outside leads to ground and +5V
int raw = 0; // Variable to store the raw input value
int frequency = 0; // Variable to store Frequency

void setup()
{}

void loop()
{
raw = analogRead(analog); // Read Voltage over Dough
frequency = raw*2; // Calculate Frequency
tone(SpeakerOutput,frequency); // Output Frequency to Sounding Device
}
```

Squishy Sound - Schematic