***e*Pumpkin Workshop**

**Hosted by Cole Norton**

## Day One: The Blinking Circuit

The focus of the first hour is to assemble a circuit that alternately blinks a pair of orange LEDs. These LEDs will be the pumpkin’s eyes. Here’s a diagram of what you’ll assemble on Day One (*all materials supplied*),



## Day Two: Advanced Pumpkin Carving and Installation

The focus of the second hour is to learn and practice some of the *tricks-of-the-trade* of the master pumpkin carvers as you carve your own pumpkin prior to installing your blinking circuit from Day One. Pumpkins will be provided.**Schematic and Parts List**



| **Label** | **Part Type** | **Properties** |
| --- | --- | --- |
| C1 | Electrolytic Capacitor | package 100 mil [THT, electrolytic]; capacitance 0.1mF; voltage 6.3V |
| C2 | Electrolytic Capacitor | package 100 mil [THT, electrolytic]; capacitance 0.1mF; voltage 6.3V |
| LED1 | Orange LED - 5mm | package 5 mm [THT]; leg yes; color Orange (620nm) |
| LED2 | Orange LED - 5mm | package 5 mm [THT]; leg yes; color Orange (620nm) |
| Q1 | NPN-Transistor | package TO92 [THT]; type NPN |
| Q2 | NPN-Transistor | package TO92 [THT]; type NPN |
| R1 | 1k Ω Resistor | package THT; tolerance ±5%; bands 4; resistance 1kΩ; pin spacing 400 mil |
| R2 | 1k Ω Resistor | package THT; tolerance ±5%; bands 4; resistance 1kΩ; pin spacing 400 mil |
| R3 | 10k Ω Resistor | package THT; tolerance ±5%; bands 4; resistance 10kΩ; pin spacing 400 mil |
| R4 | 10k Ω Resistor | package THT; tolerance ±5%; bands 4; resistance 10kΩ; pin spacing 400 mil |
| VCC1 | Battery block 9V | voltage 9V |