

## **IEEE's Hands on Practical Electronics (HOPE)**

### **Week 8: MOSFETs (pFET)**

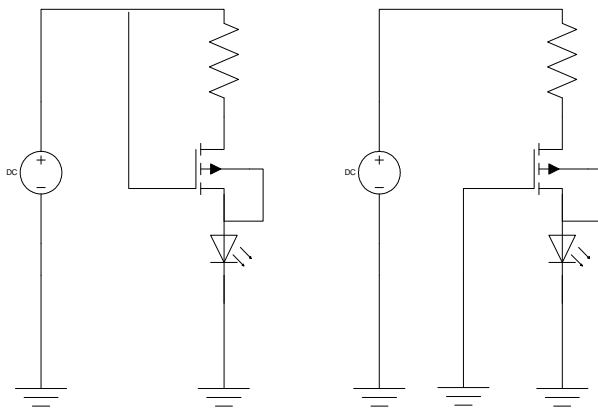
#### **Objective:**

Learn how PMOS work.

#### **Materials:**

1 Breadboard  
1 9V Battery  
1 1k $\Omega$  Resistor  
1 PMOS  
1 LED

Build the following circuit:



Compare it to the circuit you built last week.

#### **Questions:**

1. When you connect the the gate to  $V_{\text{HIGH}}$  is the LED on or off?
2. Is current through the transistor on or off?
3. When you connect the gate to  $V_{\text{LOW}}$  is the LED on or off?
4. Is the current through the transistor on or off?
5. Is this the same as last week's circuit? Are there any differences?