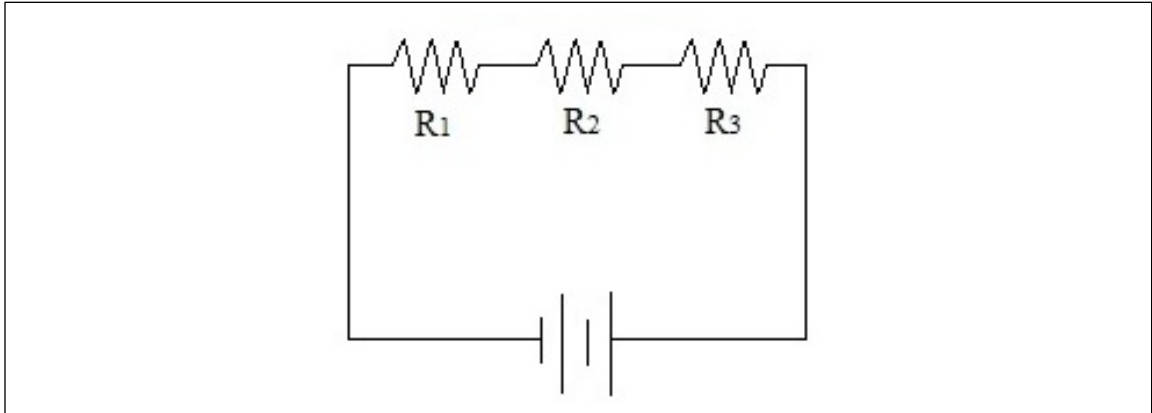
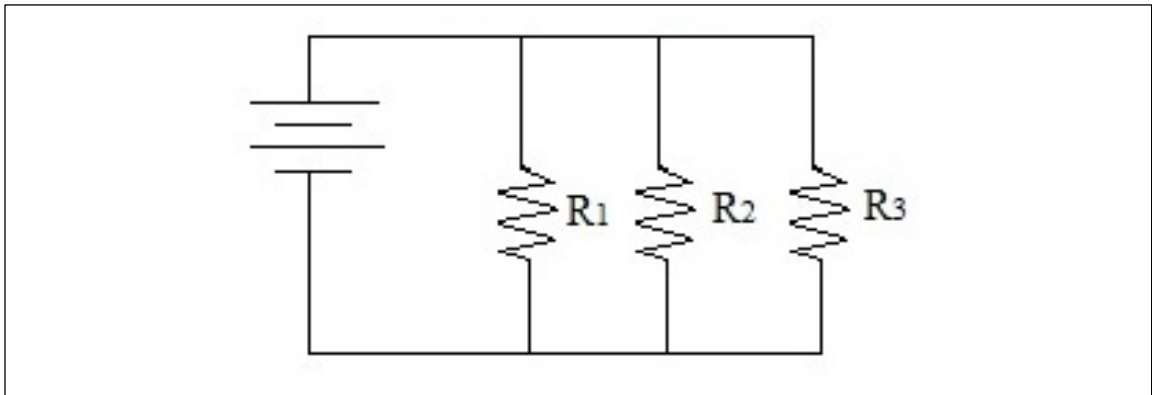


The Power of Food – Food Circuits Worksheet

1. Draw a **series circuit**



2. Draw a **parallel circuit**



3. Define and draw a labeled **LED (diode)**

A diode has two electrodes (an anode and a cathode) and allows the current to flow through it in only one direction.

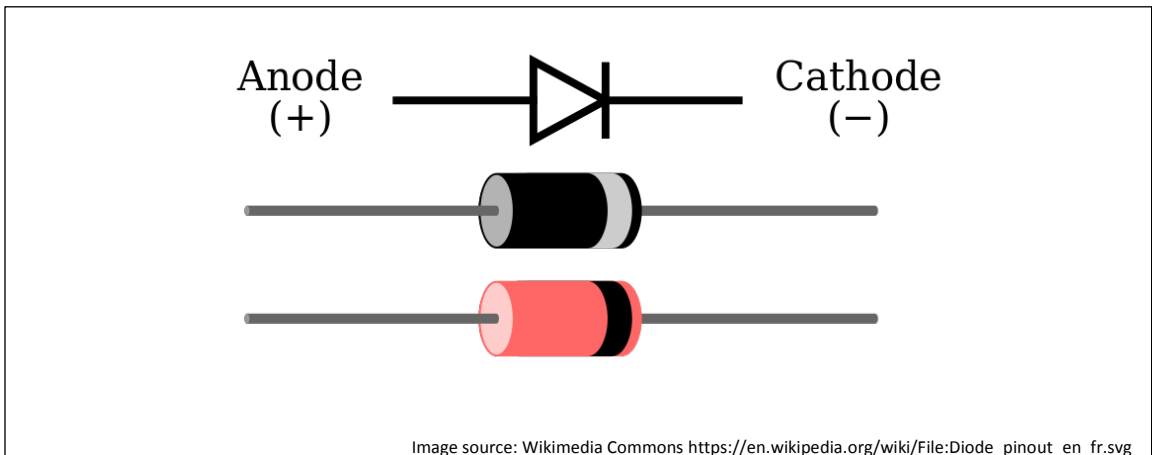


Image source: Wikimedia Commons https://en.wikipedia.org/wiki/File:Diode_pinout_en_fr.svg

4. In the table below, record your observations during your experimentation (fruit used, voltage reading, how many LEDs lit up).

Food	Voltage (reading)	Number of LEDs lit	Comments
<i>Example: lemon</i>	<i>5 volts</i>	<i>1</i>	<i>Lit up easily.</i>
<i>Example: 2 lemons</i>	<i>9 volts</i>	<i>2</i>	<i>LEDs flickered, but stayed lit.</i>

5. Draw a diagram of your most successful fruit circuit, labeling each part.

