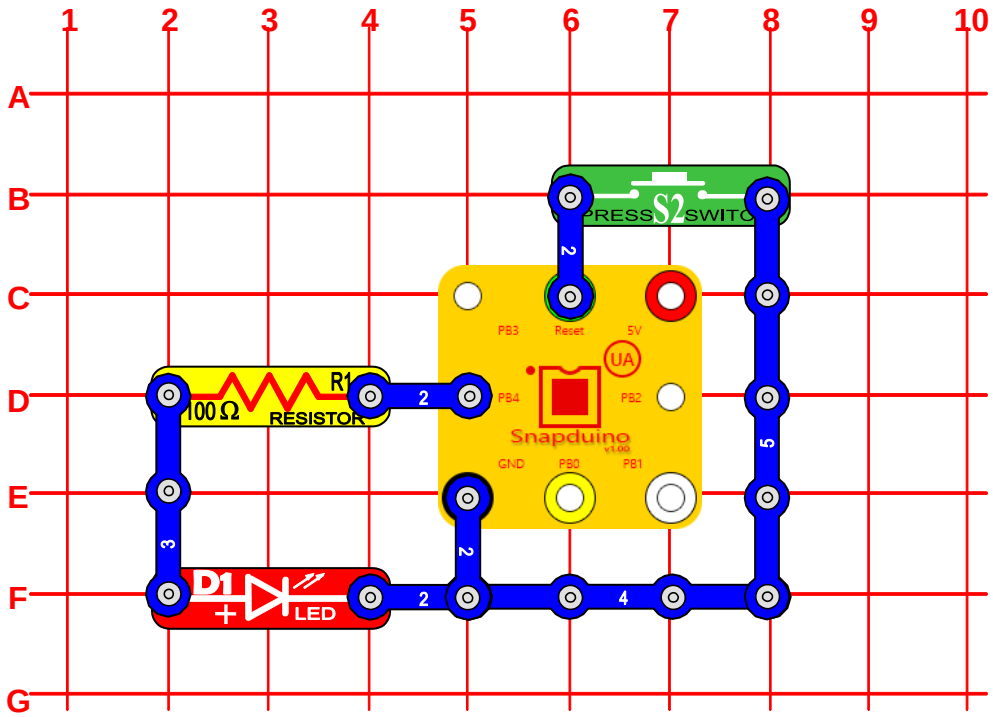

OBJECTIVE: This experiment will demonstrate the basic operation of the Snapduino by blinking the LED D1.

Parts List

Quantity	ID	Name	Part #
1		Base Grid Base Grid (11 x 7.7)	6SCBG
4		2-snap wire	6SC02
1		3-snap wire	6SC03
1		4-snap wire	6SC04
1		5-snap wire	6SC05
1	UA	Snapduino	
1		Snap-FTDI Cable	
1	D1	Red LED	6SCD1
1	R1	100 Ω Resistor	6SCR1
	S2	Press (Momentary) Switch	6SCS2

Step by Step Guide

1) Snap component **R1** between position **D2** and **D4**.
2) Snap component **D1** between **F2** and **F4**.
3) Snap a 2-snap wire over the components between **D4** and **D5**.
4) Snap a 3-snap wire over the components between **D2** and **F2**.
5) Snap a 4-snap wire between **F5** and **F8**.
6) Snap a 2-snap wire between **F4** and **F5**.
7) Connect the **black** lead of the FTDI cable to the **GND** pin marked with a black ring) on the Snapduino.
8) Snap a 2-snap wire over the components between **F5** and **E5**.
9) Snap component **S2** between position **B6** and **B8**.
10) Snap a 2-snap wire over the components between **B6** and **C6**.
11) Connect the **green** lead of the FTDI cable to the 2-snap wire over the **Reset** pin at position C6 on the Snapduino.
12) Snap a 5-snap wire over the components between **B8** and **F8**.

Step by Step Guide *(continued)*

13) Connect the **red** lead of the FTDI cable to the **5V** pin (marked with a red ring) on the Snapduino.
14) Connect the **yellow** lead of the FTDI cable to the **PB0** pin (marked with a yellow ring) on the Snapduino.
15) Connect the **white** lead of the FTDI cable to the **PB1** pin (marked with a white ring) on the Snapduino.
16) Open the sketch for this project in the Arduino IDE and upload it to the board.
17) When the upload has completed, the red LED will begin to blink.