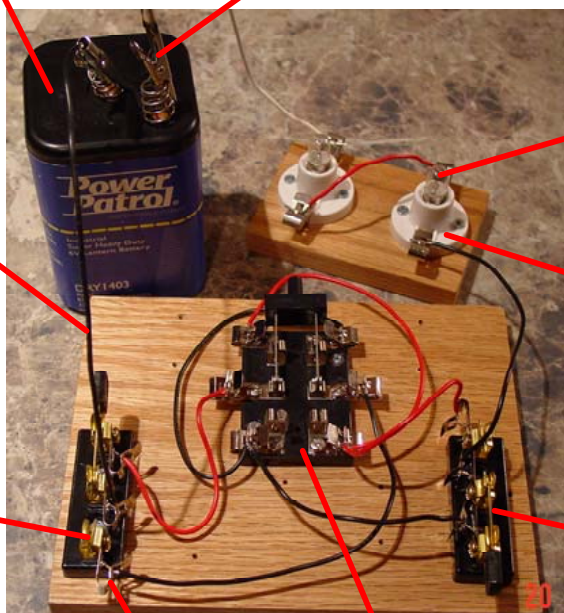


6 Volt Lantern Battery
Spring terminals (also available in screw terminals)

Alligator Clips
Best method to attach wires to the spring terminals on a lantern battery.

Wire
18 gauge, single conductor. Black, Red, White colors.

6 Volt Miniature Light Bulb
Threaded type to screw into lamp holder



Lamp Holder
Miniature lamp socket

Knife Switch Single Pole, Double Throw
Used to teach 3 way switching or selection between 2 different circuits.

Knife Switch Single Pole, Double Throw
Used to teach 3 way switching or selection between 2 different circuits.

Knife Switch Double Pole, Double Throw
Used for teaching 3 way and 4 way switch circuits.

Fahnestock clips
Allow wire ends to be connected to switches, lamps, etc. with less tools. Spring loaded clips.



Knife Switch (close-up)

DC CIRCUITS LAB II 3-way and 4-way switching

BILL OF MATERIALS

<u>Designation</u>	<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
Battery	1	7690K131	McMaster-Carr 6 Volt Lantern Battery
Alligator Clips	2	SB23790M	5 black, 5 red per pkg
Wire	3 ft*	8073K671	McMaster-Carr 18AWG solid hook-up, black
	3 ft*	8073K674	McMaster-Carr 18AWG solid hook-up, white
	3 ft*	8073K677	McMaster-Carr 18AWG solid hook-up, red
Lamp Holder	2	SB18052M	miniature lamp, plastic, sold in pkg. of 10
Light Bulb	2	SB08687M	miniature screw base, 5-6 volt
Switches	1	SB24049M	Double Pole Double Throw
	2	SB09737M	Single Pole Double Throw
(optional)	1	SB09736M	Single Pole Single Throw
Fahnestock clips	16	SB19192M	sold in pkg. Of 100
Base Board	1		6" x 7" x 3/4" oak (or similar)

* wire sold in 100' spools
Part Number in the format 'SBnnnnM' are NASCO SCIENCE parts (www.eNasco.com)