


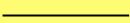
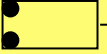


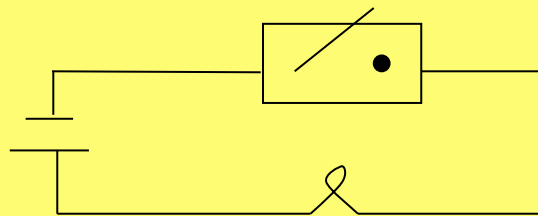
Circuit Parameters

- One switch to turn circuit on and off
- One light turns on and off with a switch
- One battery powers the circuit

Key

	Battery
	Switch
	Light
	Wire
	Motor

Simple Circuit Diagram



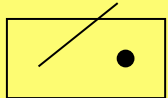
Circuit Parameters

- Circuit needs to turn on and off with a switch
- Circuit should have 2 lights that share the voltage
- Circuit will have one battery
- When you unscrew one light out the other light goes out

Key



Battery



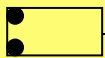
Switch



Light



Wire





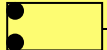


Motor

Utilities in series

Circuit Parameters

- Circuit needs to turn on and off with a switch
- Circuit should have 2 lights that use full voltage
- Circuit will have one battery
- When you unscrew one light out the other light stays on

Key	Utilities in Parallel
 Battery	
 Switch	
 Light	
 Wire	
 Motor	

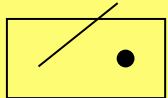
Circuit Parameters

- Circuit needs to turn on and off with a switch
- Circuit should have 2 lights that use full voltage
- Circuit will have two batteries that increases battery voltage
- When you take one battery out the lights go out

Key



Battery



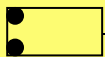
Switch



Light



Wire



Motor

Power in Series / Utilities in Parallel

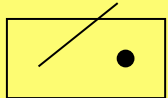
Circuit Parameters

- Circuit needs to turn on and off with a switch
- Circuit should have 2 lights that use full voltage
- Circuit will have two batteries that has voltage of one battery
- When you take one battery out the lights stay on

Key



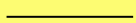
Battery



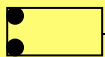
Switch



Light



Wire



Motor

Power in Parallel / Utilities in Parallel

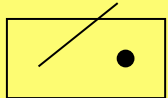
Circuit Parameters

- Circuit needs to turn on and off using 2 double switches
- Circuit should have 2 lights that use full voltage
- Circuit will have two batteries that has voltage of one battery
- When you take one battery out the lights stay on

Key



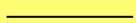
Battery



Switch



Light



Wire



Motor

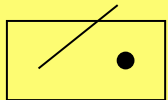
Power in Parallel / Utilities in Parallel /
Switches in Parallel

Circuit Parameters

Key



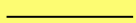
Battery



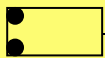
Switch



Light



Wire



Motor