Physics 1 M. Lam	1	Brightness Simu	<u>lation</u>	Name: Block:		
Objective Investigate the brightness of identical lightbulbs in different circuits						
Website: https://phet.colorado.edu Simulations > Physics > Electricity, Magnets & Circuits > Circuit Construction Kit: DC						
Each of the circuits below is constructed with identical ideal batteries and identical lightbulbs.						
С	ircuit I	Circuit II	Circuit III	Circuit IV		
[@	A PB	9 ^C 9 ^D	F G	6 K		
brightn	ch circuit, predict the orde ess with an equals sign. Circuit I	ering of the bulbs from di	mmest to brightest. Indicate	bulbs of equal		
b)	Circuit II					
c)	Circuit III					
d)	Circuit IV					
2. Constru	uct each circuit. Were you	ur predictions correct?				

a) Circuit I

b) Circuit II

3. Provide an explanation for your findings.

	c)	Circuit III	
	d)	Circuit IV	
4.	Rank all sign.	I the bulbs (A-K) from dimmest to brightest. Indicate bulbs of equal brigh	tness with an equals
5.		llowing bulb, identical to all the others, has a brightness of P , determine htness of all the bulbs (A-K) in terms of P . Show your work.	