

Name \_\_\_\_\_

### Circuits Lab

Observe the circuits diagramed below. Predict the consequential lighting before creating the circuit. What is the actual lighting? Is each circuit in series or parallel?

Circuit	Predicted Lighting 0=nothing 1=dim 2=avg 3=very bright	Observed Lighting 0=nothing 1=dim 2=avg 3=very bright	Series or Parallel? (Circle One)
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both
	A: B: C:	A: B: C:	Neither Series Parallel Both

## Questions

1. Which type of circuit (series or parallel) led to the relatively brightest bulbs?
2. Which type of circuit (series or parallel) had the highest relative resistance?
3. Explain what happened in circuit #3. Why did this happen?
  
4. What aspect of electricity ultimately determines the brightness of a bulb? (V,R,I)