

Answer Key: Lesson 5 The Effect Resistors Have

These values represent my own measurements using stable 9.0 volts.

Your answers should follow a similar pattern, but the voltages will be different, depending on the strength of your battery.

Resistance	V_{total}	V_{drop} ACROSS Resistor	V_{Drop} ACROSS LED	Relative Brightness
100 ohm	9.00 v	5.8 v	3.20 v	Bright
470 ohm	9.00 v	6.85 v	2.15 v	NORMAL
2,200 ohm	9.00 v	7.08 v	1.92 v	Less
10,000 ohm	9.00 v	7.17 v	1.83 v	dim
47,000 ohm	9.00 v	7.23 v	1.77 v	dimmer
220,000 ohm	9.00 v	7.28 v	1.72 v	barely on(View in closet)

Appendix A Table-1: This relates to table 5-1.