

AE-237 Basic Measurement Lab: Volts and Resistance

NAME: _____ DATE: _____

Battery Description / Brand	printed voltage	Measured Voltage 'no load'	Multi-meter Load Current	Multi-meter Load Voltage (requires partner)
Total Voltage in Series >				

NOTES:

- **LOAD:** the circuitry to which the power source is applied. The load might be a light bulb, an LED or a laptop.
- Under a '**No Load**' condition, there is no stress on the battery
- A '**Loaded**' condition simulates the stress under normal operating conditions.

Standard Resistors

1 st band significant	2 nd band significant		3 rd band Multiplier	4 th band Tolerance	calculated Ω	Measured Ω
brown	black		orange	silver		Sample
1	0		X 1000	+/- 10 %	10,000Ω	Sample

Precision Resistors

1 st band significant	2 nd band significant	3 rd band precision	4 th band Multiplier	5 th band Tolerance	calculated Ω	Measured Ω
brown	black	black	red	brown		Sample
1	0		X 100	+/- 1 %	10,000Ω	Sample