

Adjust
voltage of
battery



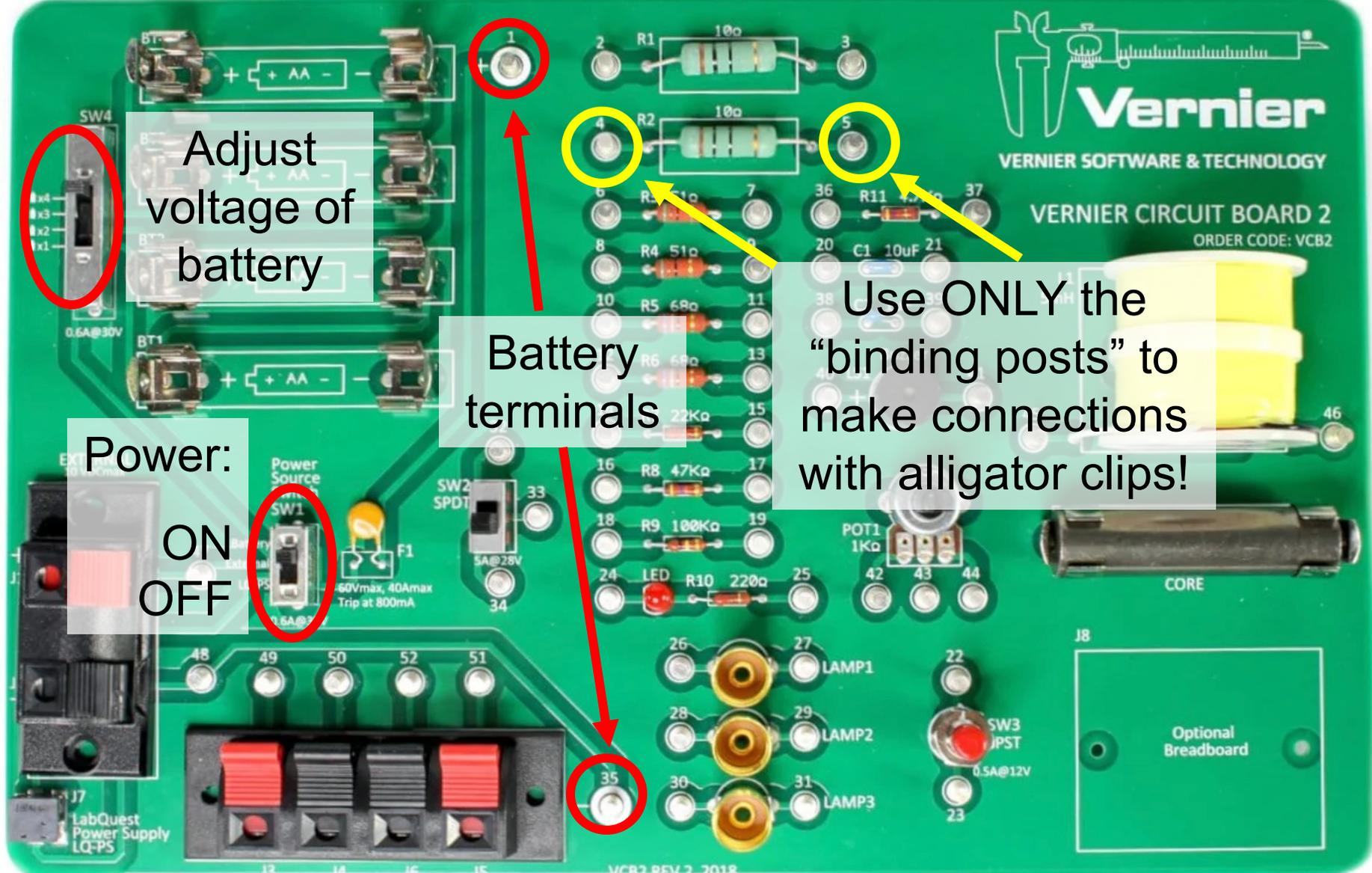
Battery
terminals

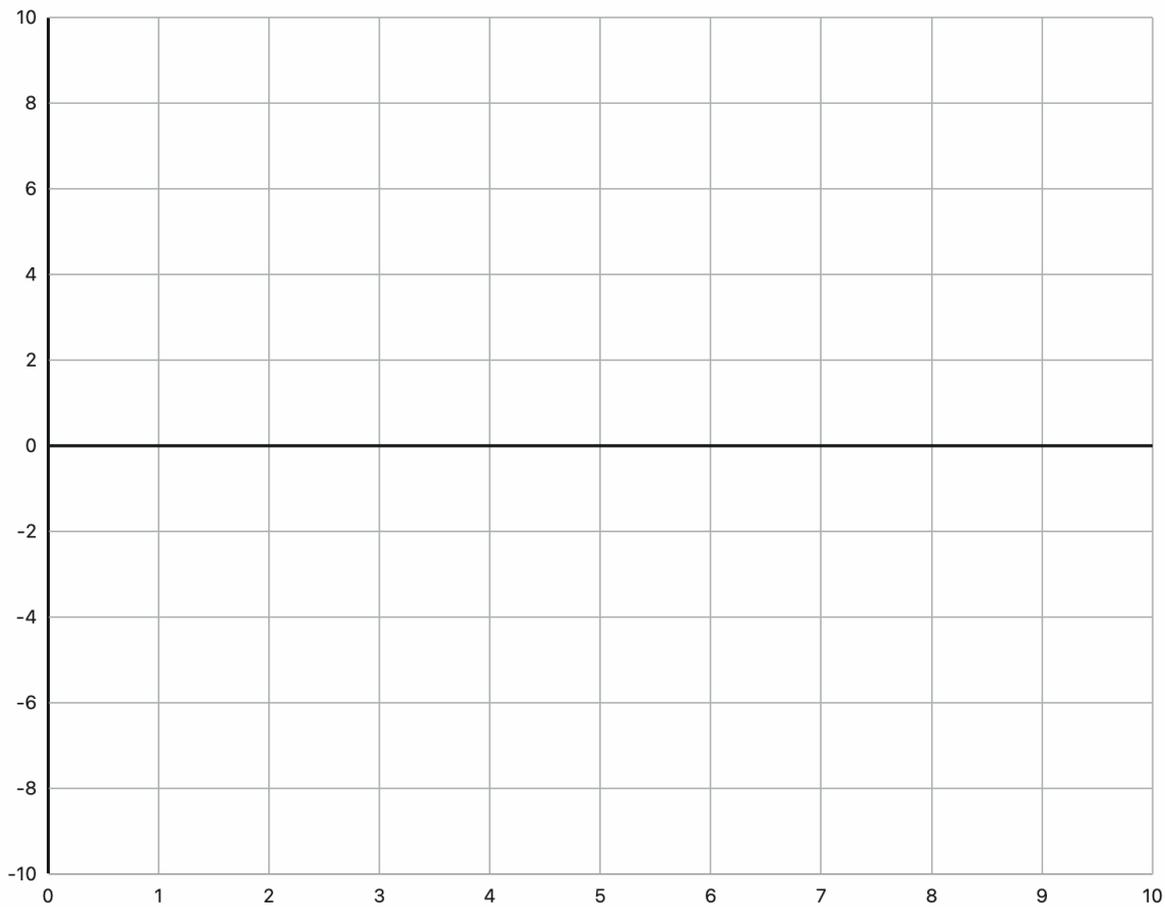


Use ONLY the
“binding posts” to
make connections
with alligator clips!



Power:
ON
OFF





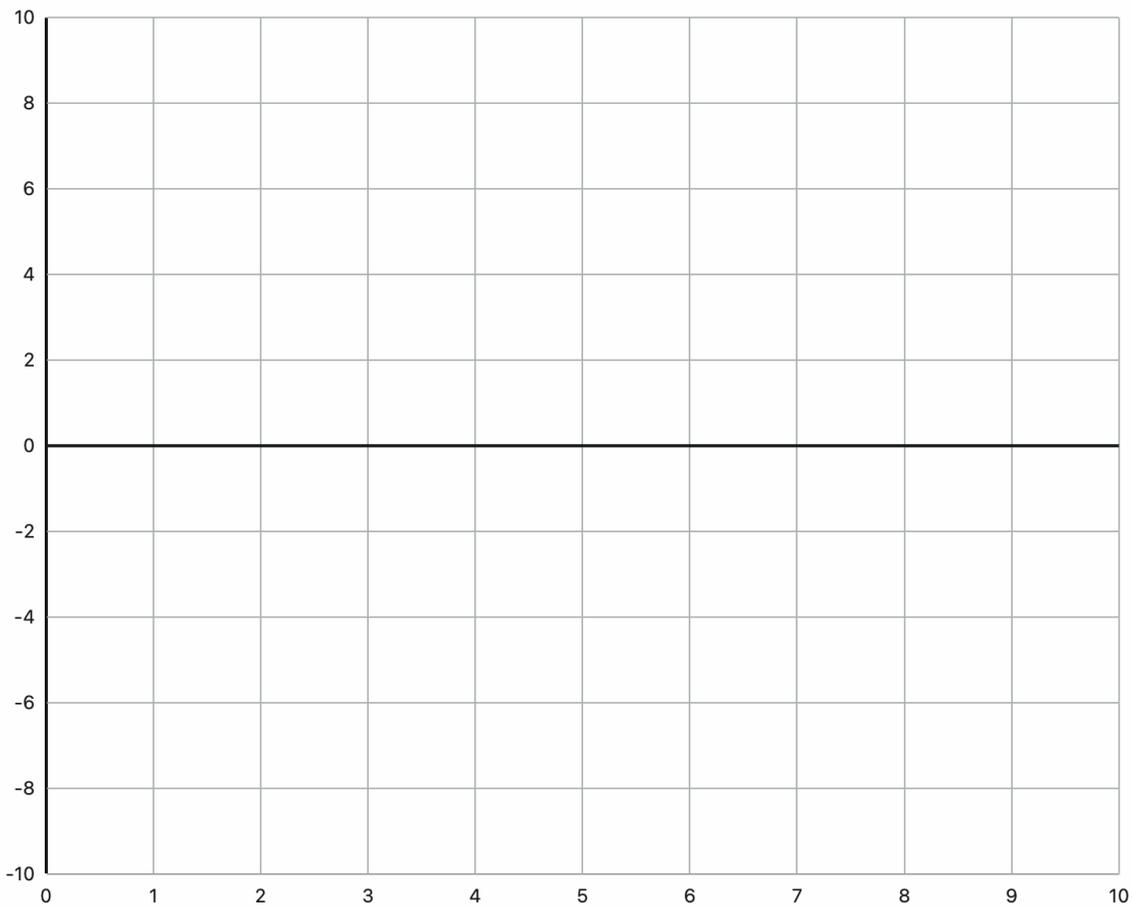
Potential:
0.00 V

- Graph
- 1 Graph ▾
- Data Table
- Meters
- Video
- Notes



Time (s)

COLLECT



Potential:
0.00 V

Potential

⚙️ Column Options

↕️ Move Up

↕️ Move Down

⊕ Add/Remove Meters

🗑️ Remove

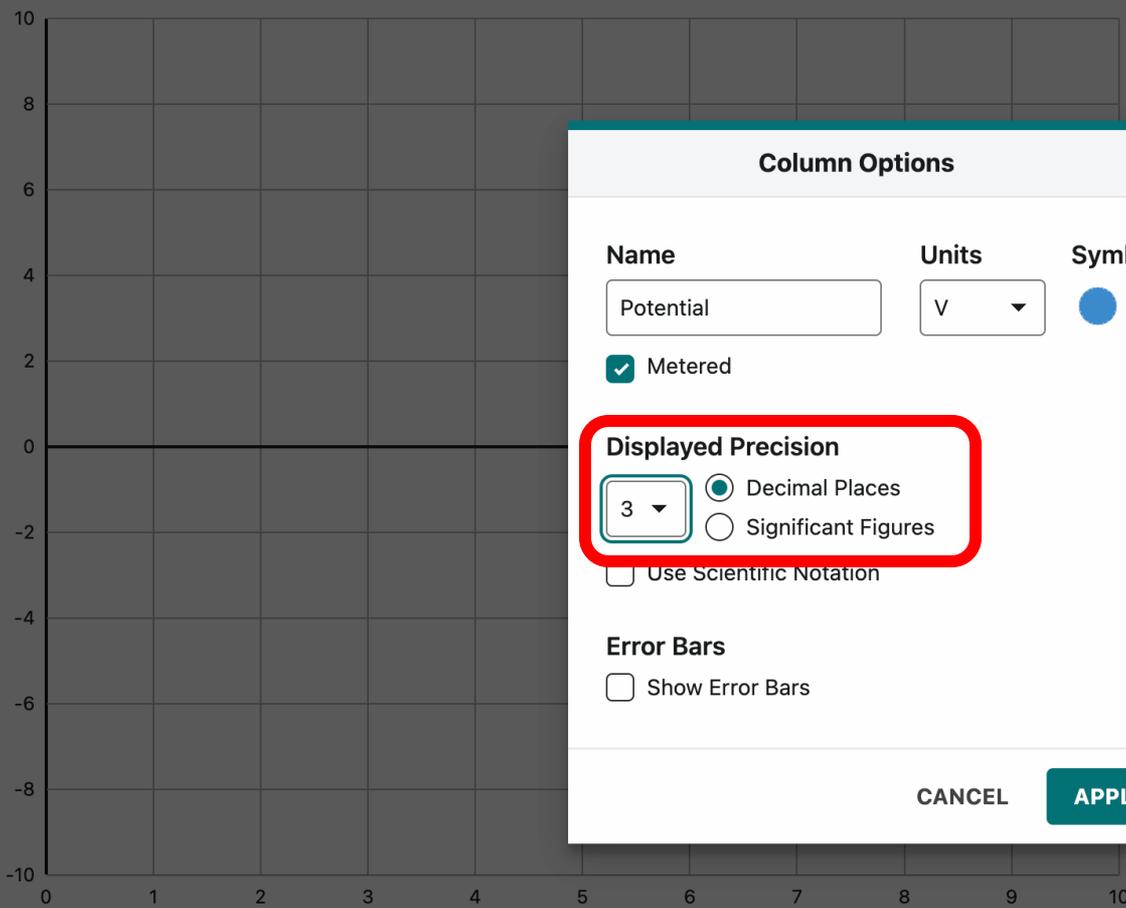


Time (s)



Untitled

COLLECT

Potential:
0.00 V

Column Options



Name

Potential

Units

V

Symbol

 Metered

Displayed Precision

3

 Decimal Places Significant Figures Use Scientific Notation

Error Bars

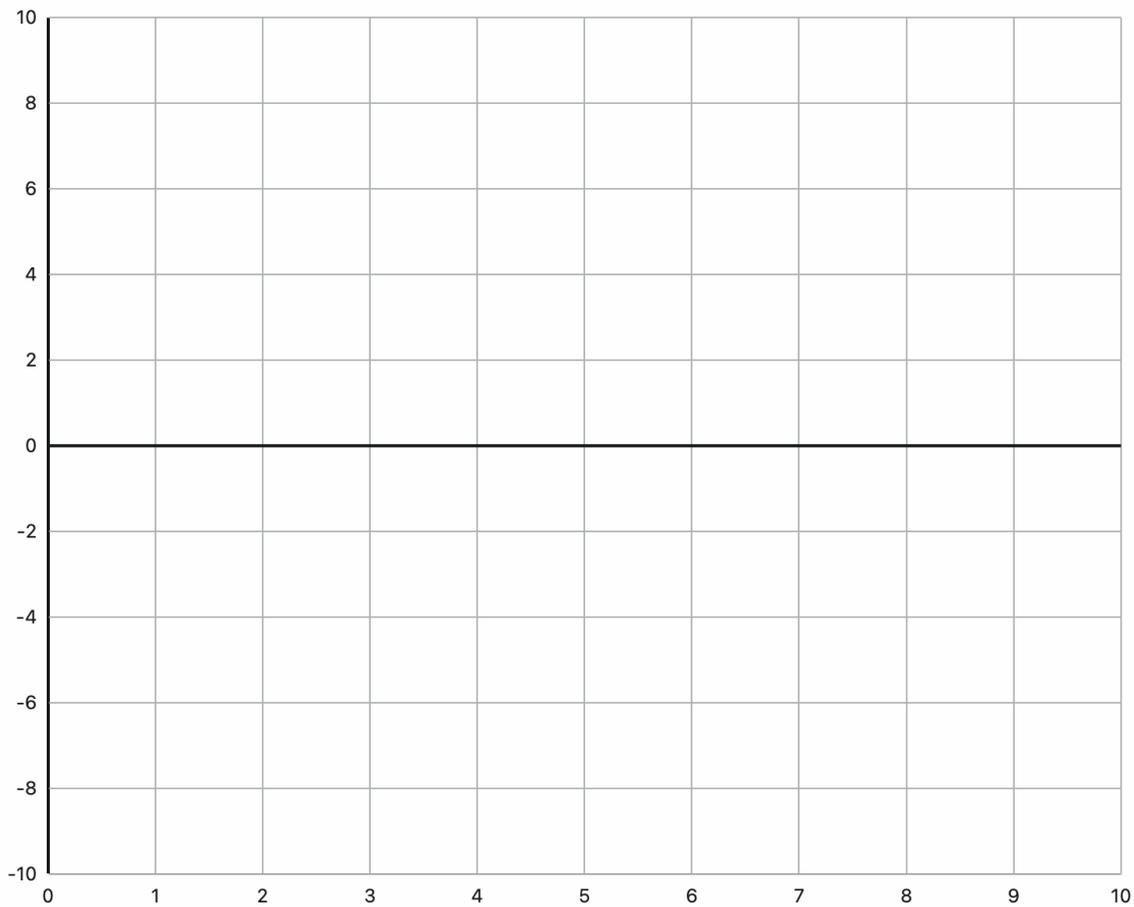
 Show Error Bars

CANCEL

APPLY



COLLECT



Potential:
0.002 V

⋮

VOLTAGE - 20 V
GDX-VOLT 0G1040V4

Zero

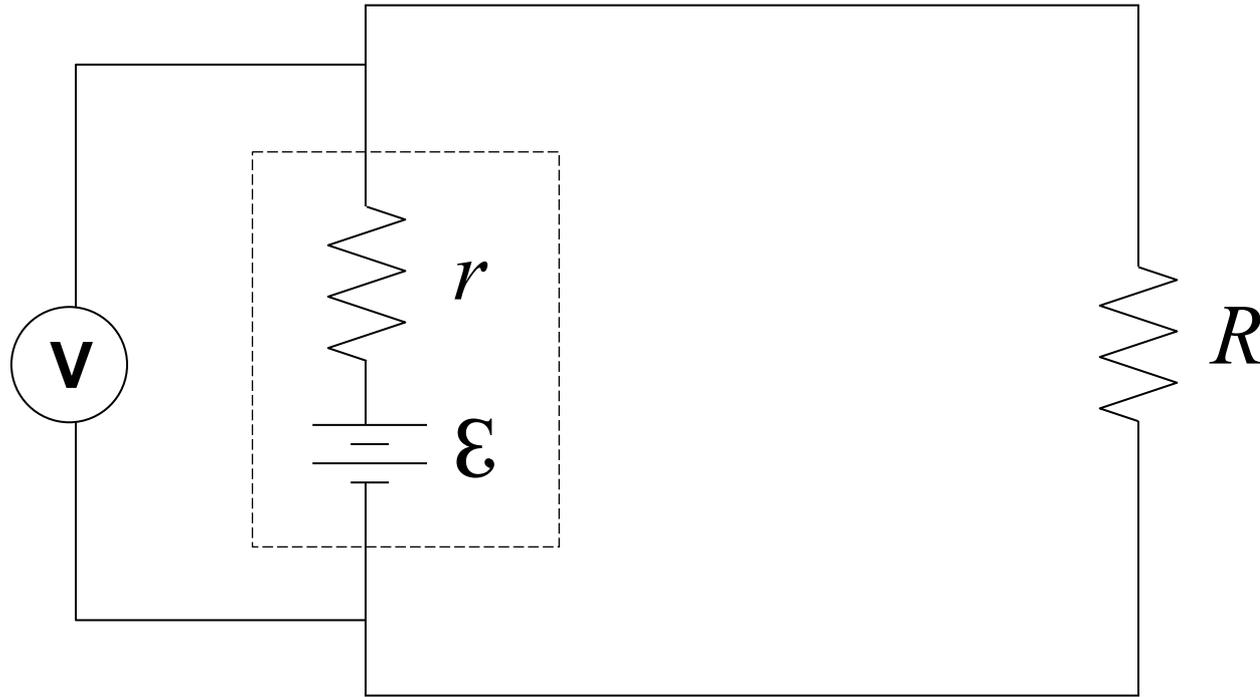
Units V ▾



Time (s)



Measure the terminal voltage of the battery.



Vary the external resistance R and note the resulting voltage V ; record both values.



VERNIER SOFTWARE & TECHNOLOGY

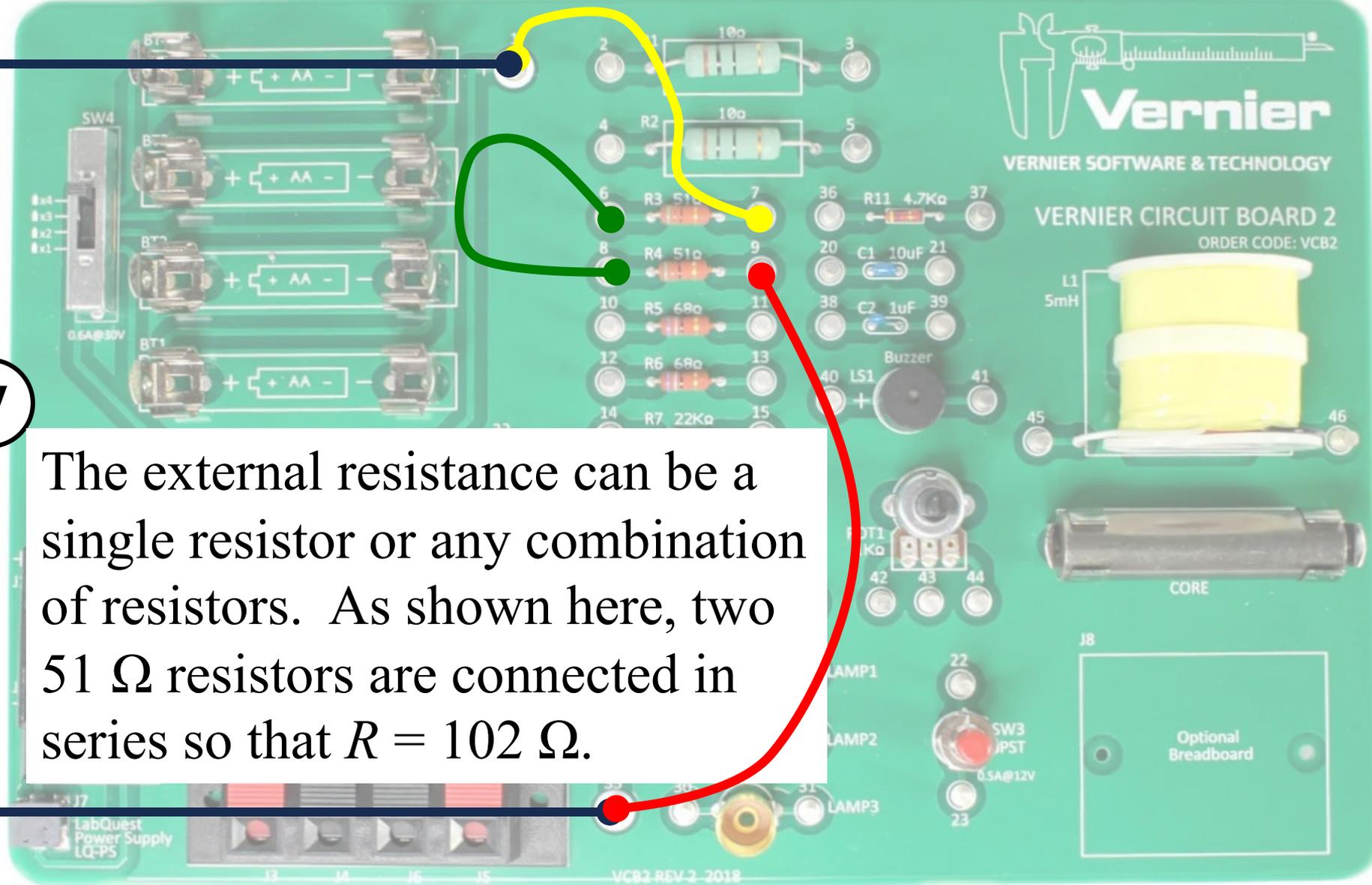
VERNIER CIRCUIT BOARD 2

ORDER CODE: VCB2



V

The external resistance can be a single resistor or any combination of resistors. As shown here, two 51 Ω resistors are connected in series so that $R = 102 \Omega$.



Untitled

Data Collection Settings



Mode Time Based

Time Units s

Rate 20 samples/s

Interval 0.05 s/sample

Start Collection Manually On a triggering event

Start collection when

 Voltage - 20 V

is decreasing across 6 V

Collect 0 points before

trigger

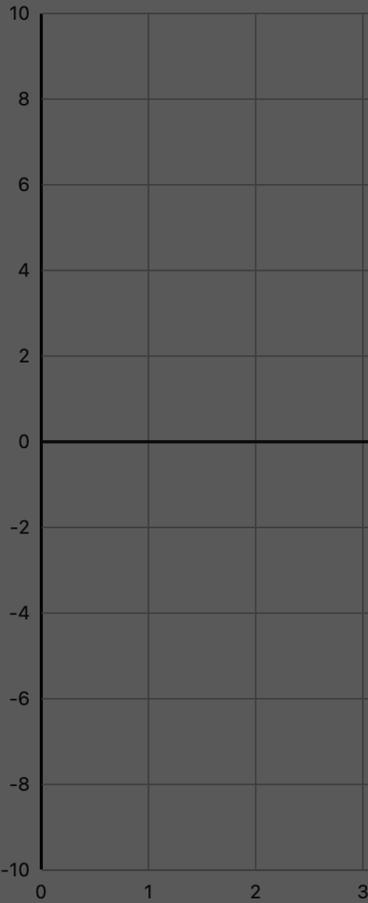
End Collection After 30 s duration Manually

Total samples: 601

CANCEL

DONE

Potential: 0.006 V



Mode: Time Based Rate: 10 samples/s

Potential: 0.006 V

◆ **COPY PAPER**

SKU# 324791
Made in USA

Brightness

92

Weight
75 g/m²

20lb.

Letter Size
216mm x 279mm

8 1/2" x 11"

Sheets

500

500 sheets

◆ COPY PAPER

Brightness	Weight 75 g/m ²	Letter Size 216mm x 279mm	Sheets
92	20lb.	8 1/2" x 11"	500