Thevenin Equivalent Circuits
Tools

• Breadboard

• Resistors and wires
Tools

- Data Acquisition Board (DAQ)
Tools

- DAQ Software
Constructed Circuit

[Diagram of a circuit with resistors labeled 10k and a voltage source labeled 15V connected to terminals labeled VT and RT.]
Thevenin Equivalent Circuit

\[ v_{oc} = 15 \frac{10}{10 + 10 + 10} = 5V = v_T \]

\[ i_{sc} = \frac{15}{10k + 10k} = 0.75 \text{ mA} \]

\[ R_T = \frac{v_{oc}}{i_{sc}} = \frac{5}{0.75 \text{ m}} = 6.66 \text{ k}\Omega \]