

# ETY155 - Additional Online Resources

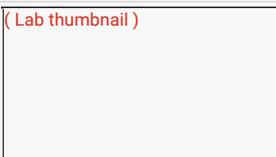
Version 1

Published 5/2/2025 by **Fabio Pricinato Costa** Last updated 2/18/2024 2:30 PM by **Karen Craigs**

## Navigation of this Page:

- [Videos from Lab Work](#)
- [How to Use a Breadboard](#)
- [SparkFun Tutorials](#)
- [Circuit Analysis Explanations](#)
- [How to Use Equipment](#)
- [Software Tutorials](#)
- [Advanced Search Topics](#)
- For LIN155 CORE materials, click back to the [main page](#).

## Videos from Lab Work:

<a href="#">( Lab thumbnail )</a> 	<a href="http://youtu.be/Fqh6aaHBM6E">http://youtu.be/Fqh6aaHBM6E</a> Lab Introduction <i>SEMET</i>
<a href="#">( Lab thumbnail )</a> 	<a href="http://youtu.be/yVtX7-1mmh4">http://youtu.be/yVtX7-1mmh4</a> Lab Kit Tips - How To Organize Your Toolkit <i>kekaroo</i>
<a href="#">( Lab thumbnail )</a> 	<a href="http://youtu.be/IN8FkO7zRWk">http://youtu.be/IN8FkO7zRWk</a> Breadboarding and Resistance <i>SEMET</i>
<a href="#">( Lab thumbnail )</a> 	<a href="http://youtu.be/7Uf8193oQAE">http://youtu.be/7Uf8193oQAE</a> Series Circuits Measurements (Voltage and Current) <i>SEMET</i>
<a href="#">( Lab thumbnail )</a> 	<a href="http://youtu.be/hLKYI61ulAA">http://youtu.be/hLKYI61ulAA</a> Parallel Circuits Measurements (Voltage and Current)

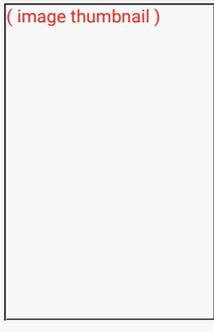
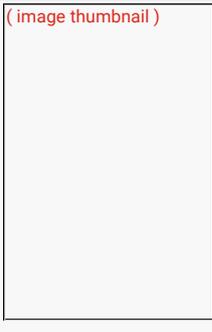
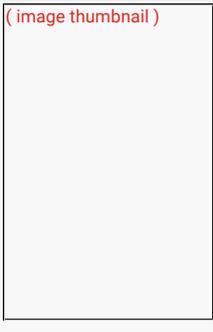
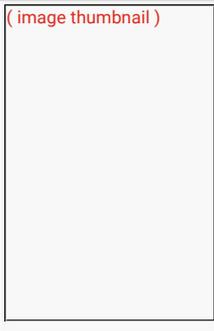
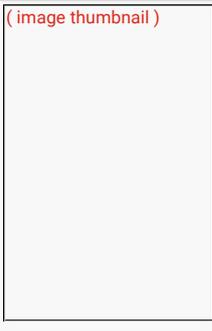
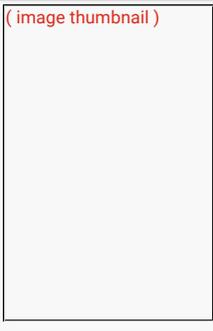
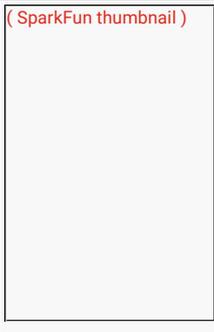
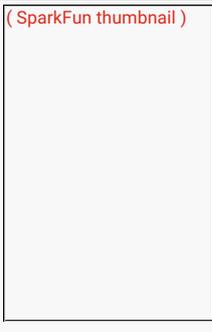
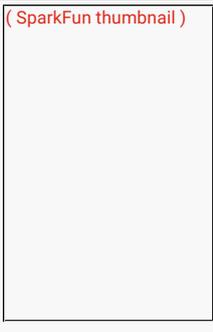
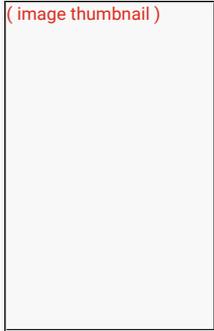
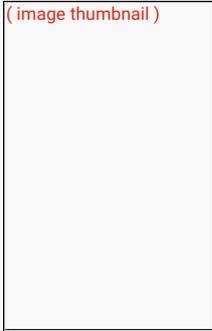
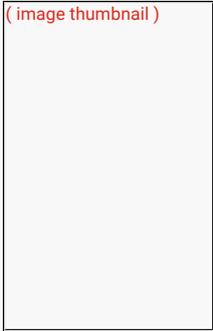
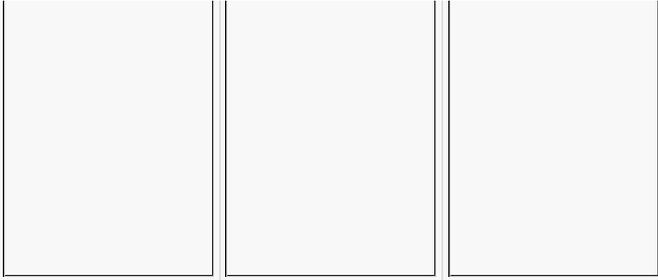
	SEMET
( Lab thumbnail )	<a href="http://youtu.be/FovggK_hE6s">http://youtu.be/FovggK_hE6s</a> Series-Parallel Circuits Measurements (Voltage and Current) SEMET
( Lab thumbnail )	<a href="http://youtu.be/llkzWQ-NbU">http://youtu.be/llkzWQ-NbU</a> OrCAD Simulation 1 (Series-Parallel Circuit) SEMET
( Lab thumbnail )	<a href="http://youtu.be/sxBPcc4OVqU">http://youtu.be/sxBPcc4OVqU</a> Superposition Theorem SEMET
( Lab thumbnail )	<a href="http://youtu.be/2rRAfsUczK0">http://youtu.be/2rRAfsUczK0</a> Thévenin Theorem SEMET
( Lab thumbnail )	<a href="http://youtu.be/P30Bxfm4sEs">http://youtu.be/P30Bxfm4sEs</a> OrCAD Simulation 2 (Thévenin and Max Power) SEMET

## How to Use a Breadboard:

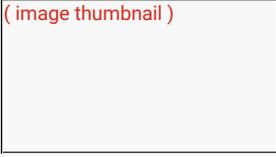
image thumbnail	<a href="http://youtu.be/LrOM2GABK1g">http://youtu.be/LrOM2GABK1g</a> Introduction to Tinkercad Circuits & Breadboarding - Part 1 <i>Remi Wauthy</i>
image thumbnail	<a href="http://youtu.be/vJUX9cvyYjU">http://youtu.be/vJUX9cvyYjU</a> How to Wire Circuits from Schematics <i>Parallax Inc.</i>

## SparkFun Tutorials:

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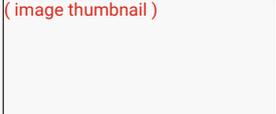
## Circuit Analysis Explanations:

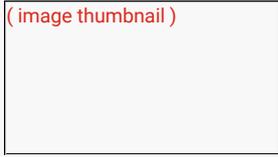
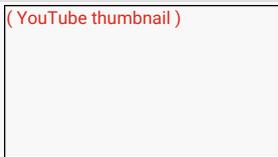
	<p><a href="http://youtu.be/mvuHsu8S6v8">http://youtu.be/mvuHsu8S6v8</a></p> <p>Volts, Amps, and Watts Explained</p> <p><i>Techquickie</i></p>
	<p><a href="http://youtu.be/-PiB2Xd3P94">http://youtu.be/-PiB2Xd3P94</a></p> <p>How to Solve Any Series and Parallel Circuit Problem</p> <p><i>Jesse Mason</i></p>
	<p><a href="http://youtu.be/SKdK_L4jbV0">http://youtu.be/SKdK_L4jbV0</a></p> <p>Review Kirchoff's Laws</p> <p><i>Jesse Mason</i></p>

## How to Use Equipment:

<a href="http://youtu.be/bF30yQ3HwfU">http://youtu.be/bF30yQ3HwfU</a>	- Multimeter Tutorial
<a href="http://youtu.be/sKuPd3XYwuA">http://youtu.be/sKuPd3XYwuA</a>	- How to Measure V, R, and I with a DMM
<a href="http://youtu.be/zb7WHaL_dz8">http://youtu.be/zb7WHaL_dz8</a>	- The Basics of a DMM
<a href="http://youtu.be/b4jLZWiaoQ0">http://youtu.be/b4jLZWiaoQ0</a>	- Digital Power Supply Demonstration
<a href="http://youtu.be/w99Q23mUEZg">http://youtu.be/w99Q23mUEZg</a>	- Get -12V and +12V from a Dual Power Supply
<a href="http://youtu.be/CzY2abWCVTY">http://youtu.be/CzY2abWCVTY</a>	- How to Use an Oscilloscope
<a href="http://youtu.be/8VEg6L2QG5o">http://youtu.be/8VEg6L2QG5o</a>	- AC vs DC on the Oscilloscope

## Software Tutorials:

	<p><a href="https://www.tinkercad.com/learn/">https://www.tinkercad.com/learn/</a></p> <p>Tinkercad Lessons - Circuits</p> <p><i>AutoDesk Tinkercad</i></p>
	<p><a href="http://youtu.be/hZkenZgyDZ0">http://youtu.be/hZkenZgyDZ0</a></p> <p>Fritzing Tutorial 1   Breadboard and Schematic views</p> <p><i>CWAIN Microsystems</i></p>

	
	<a href="http://youtu.be/vaCVh2SAZY4">http://youtu.be/vaCVh2SAZY4</a> Introduction to KiCad (Part 1 of 4) <i>Digi-Key</i>
	<a href="http://youtu.be/NU8i39HZTik">http://youtu.be/NU8i39HZTik</a> Orcad Tutorial 1   Getting started (Part 1 of 18) <i>India Engineered</i>
	<a href="http://youtu.be/35YulLUIfGs">http://youtu.be/35YulLUIfGs</a> From Circuit Idea to Schematic to PCB Design <i>GreatScott</i>

### Advanced Search Topics:

<a href="http://youtu.be/BclDRet787k">http://youtu.be/BclDRet787k</a>	- AC vs. DC
<a href="http://youtu.be/ZjwzpoCiF8A">http://youtu.be/ZjwzpoCiF8A</a>	- How Transformers Work
<a href="http://youtu.be/VucsoEhB0NA">http://youtu.be/VucsoEhB0NA</a>	- Transformer Animation
<a href="http://youtu.be/B8CPGiK59f8">http://youtu.be/B8CPGiK59f8</a>	- The Basics of Inductance

- [Electrical Resistance](#)
- [Electric Potential Difference](#)
- [Electrical Current](#)
- [Electrical Energy and Power](#)
- [Conductors, Insulators, Semiconductors](#)
- [Electrostatics](#)
- [Electromagnetism](#)
- [Capacitance](#)
- [Inductance](#)

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tags : ety155, lin155