Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Series Circuit Rubric

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| --- | --- | --- | --- |
| **Skill** | **Wow-10** | **OK-8** | **Oops-6** |
| **Schematic**-  Symbols drawn on paper  (1) energy source  (2) loads/devices  Conductors and Soldering | All loads, conductors, and energy sources are included and correctly symbolized. | (1) load, conductor, and/or energy source is not included and/or correctly symbolized. | >(1) load, conductor, and/or energy source is not included and/or correctly symbolized. |
| **Circuit Design-**  (1) energy source  (2) loads/devices  Conductors and Soldering | All loads, conductors, and energy sources are included and soldered according to schematic drawing | (1) load, conductor, and/or energy source is not included and/or soldered according to schematic drawing. | (1) load, conductor, and/or energy source is not included and/or soldered according to schematic drawing. |
| **Soldering** | All solder joints are clean and solid. | (1) solder joint is not clean and solid. | >(1) solder joint is not clean and solid. |
| **Volt/Amp/Resistance**  **Values Measured Tested and Labeled** | Voltage, Current, and Resistance have been measured and/or calculated for Total Circuit **AND** on, or around **all** loads, energy sources, and conductors. Values are included in schematic. V=IR | (1)Voltage, Current, or Resistance value has not been measured and/or calculated for Total Circuit **AND** on, or around **all** loads, energy sources, and conductors. | >(1)Voltage, Current, or Resistance value has not been measured and/or calculated for Total Circuit **AND** on, or around **all** loads, energy sources, and conductors. |
| Safety i.e. goggles, DC only, asking permission for alternate procedures. | All lab safety rules have been followed, including goggles during soldering. Student asked permission before any procedure not in assignment. | Student received (1) warning for not following directions and/or lab safety rules. | Student received >(1) warning for not following directions and/or lab safety rules. |

Parallel Circuit Rubric

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| --- | --- | --- | --- |
| **Skill** | **Wow-10** | **OK-8** | **Oops-6** |
| **Schematic**-  Symbols drawn on paper  (1) energy source  (2) loads/devices  Conductors and Soldering | All loads, conductors, and energy sources are included and correctly symbolized. | (1) load, conductor, and/or energy source is not included and/or correctly symbolized. | >(1) load, conductor, and/or energy source is not included and/or correctly symbolized. |
| **Circuit Design-**  (1) energy source  (2) loads/devices  Conductors and Soldering | All loads, conductors, and energy sources are included and soldered according to schematic drawing | (1) load, conductor, and/or energy source is not included and/or soldered according to schematic drawing. | (1) load, conductor, and/or energy source is not included and/or soldered according to schematic drawing. |
| **Soldering** | All solder joints are clean and solid. | (1) solder joint is not clean and solid. | >(1) solder joint is not clean and solid. |
| **Volt/Amp/Resistance**  **Values Measured Tested and Labeled** | Voltage, Current, and Resistance have been measured and/or calculated for Total Circuit **AND** on, or around **all** loads, energy sources, and conductors. Values are included in schematic. V=IR | (1)Voltage, Current, or Resistance value has not been measured and/or calculated for Total Circuit **AND** on, or around **all** loads, energy sources, and conductors. | >(1)Voltage, Current, or Resistance value has not been measured and/or calculated for Total Circuit **AND** on, or around **all** loads, energy sources, and conductors. |
| Safety i.e. goggles, DC only, asking permission for alternate procedures. | All lab safety rules have been followed, including goggles during soldering. Student asked permission before any procedure not in assignment. | Student received (1) warning for not following directions and/or lab safety rules. | Student received >(1) warning for not following directions and/or lab safety rules. |