**WRITING:**

**Potential ACT Writing Alignment – Electrical Circuits Unit**

In addition to science, math, and reading skills, our **electrical circuits unit** can also reinforces key **ACT Writing skills**. The ACT Writing section isn’t just about grammar—it’s about **building strong arguments, organizing ideas logically, and supporting claims with evidence**. These are essential skills for both **academic success and STEM careers**.

This unit can connect to ACT Writing in **three key areas**:

1. **Ideas & Analysis – Constructing Logical Arguments**

First, focus on how students **develop and analyze arguments**.

* They’ll be asked to **construct well-reasoned positions** on circuit design, energy efficiency, and electrical safety.
* They’ll **analyze multiple perspectives** on how electricity impacts our world.

✔️ **Example Applications in Our Unit:**

* **Explaining the advantages and disadvantages** of series vs. parallel circuits.
* **Evaluating the role of resistance** in energy conservation.
* **Comparing multiple viewpoints** on renewable energy and electricity use.

1. **Development & Support – Using Evidence Effectively**

Next, reinforce the importance of **supporting arguments with evidence**.

* Students will use **data, scientific principles, and real-world examples** to justify their claims.
* They’ll practice **technical explanations** that are clear, logical, and well-supported.

✔️ **Example Applications in Our Unit:**

* **Citing scientific principles** to explain the role of resistance in a circuit.
* **Providing real-world applications** of electrical circuits in electric vehicles and smart grids.
* **Using case studies** to support arguments about power distribution and energy conservation.

1. **Organization & Clarity – Structuring Ideas Logically**

Finally, focus on **clear, well-organized writing**.

* Students will refine their ability to **logically sequence their ideas** when explaining electrical concepts.
* They’ll learn how to **use transitions effectively** to connect ideas smoothly.

✔️ **Example Applications in Our Unit:**

* **Writing a structured explanation** of Ohm’s Law.
* **Comparing and contrasting** series vs. parallel circuits in an organized essay.
* **Developing a persuasive argument** about energy conservation in circuit design.

**Why This Matters for ACT Success?**

By incorporating **structured writing, logical arguments, and real-world applications**, this unit builds essential **ACT Writing skills** while strengthening **STEM communication**. These skills will help students not only on the ACT but also in **college, technical careers, and beyond**.