**ENGLISH:**

**ACT English Alignment – Build your own Circuitry Game**

**Grammar & Technical Writing**

Students develop their grammar, sentence structure, and technical writing skills by analyzing and revising instructions, descriptions, and explanations for their circuitry game. They practice organizing ideas logically, enhancing clarity, and improving sentence mechanics—key competencies in ACT English. Activities focus on editing, sentence cohesion, and clarity in technical writing.

**Potential ACT English Standards Covered in this Unit**

This unit connects to ACT English skills in five key areas:

**ACT English Rating Scale – Sentence Structure & Clarity**

1. **(16–19) Identifying and Correcting Sentence Structure Errors**
* Spot and fix run-ons, fragments, and basic punctuation issues in circuit instructions
* Recognize incomplete or confusing steps in build guides
1. **(20–23) Revising Unclear or Redundant Technical Descriptions**
* Eliminate repeated phrasing or unnecessary words in circuit explanations
* Clarify vague steps (e.g., “connect it there” → “connect the red wire to terminal A”)
1. **(24–27) Improving Conciseness and Coherence in Instructions**
* Streamline multi-step directions into logical sequences
* Ensure each step in a build guide flows smoothly into the next
1. **(28–32) Refining Advanced Technical Writing for Precision**
* Use domain-specific terms accurately (e.g., voltage drop, resistance path)
* Refine explanations of circuit behavior to be more exact
1. **(33–36) Enhancing Logical Flow and Argumentation in Technical Reports**
* Organize extended passages to improve structure and argument
* Support technical claims with data, examples, and clear logic

**Why This Matters for ACT Preparation**

By engaging with real-world technical writing tasks in the Circuitry Game Kit, students:

✅ Strengthen grammar, sentence structure, and clarity—core ACT English skills.
✅ Practice revising circuit instructions for precision, conciseness, and logical flow.
✅ Edit technical descriptions, troubleshoot manuals, and improve written communication about electronic systems.

These hands-on, language-focused activities help students apply editing and revision strategies to real-world STEM texts—just as they’ll be expected to do on the ACT and in college-level science and engineering courses.