Atomic Theory Skills

Goals: Use atomic structure to explain the relationships between resistance, current, and voltage Use a multimeter to measure resistance, current, and voltage



3/5	Demonstrate required concepts

+1 In addition to #3, combine key concepts in **circuit applications**

+1 In addition to #3, combine skills to learn something new. Requirements:

- Use at least one skill from this sheet
- Use at least one other skill (from this sheet, other sheets, other courses, previous experience, etc.)
- Learn something new and explain how it works
- Document it (written description, photos, video, screencast, or any other way)

EETN DC Circuits – Atomic Theory Skills Last updated July 17, 2019 Name

Shop

Theory: Ch 1, 2, 3

3/5: Required Skills

		Due	Complete		Due	Complete
2-1, 2-2	Describe atomic structure, including □ Function of protons, neutrons, and electrons □ Charge □ Relative position			Test resistors for damage □ Use the circuit rubric		
	Contribute to the class model □ Use the Assessing Evidence rubric			Give feedback on model presentations □ Use the Assessing Evidence rubric		
2-3, 2-4, 2-5, 2-6, 3-1	Describe relationships between voltage, current, and resistance □ Causes and effects □ Units			Test questions determined by class □ Use the circuit rubric		

+1: Application

2-7	Identify incorrect meter use □ For any given multimeter setup, □ Explain whether it will measure what you want to			Test a fuse □ Use the circuit rubric	
	 measure Relate to your knowledge of the relationship between V, I, R and what's inside a multimeter 				

+1: Investigation

□ Build a lightbulb dimmer (Ch 2, application Activity)

□ Build a motor speed controller (Ch 3, Application Activity)

□ Find an interesting project and find prices for all the parts on Newark.ca (Instructables.com, Make magazine)

□ Find an interesting project, build it, and explain how it works (Instructables.com, Make magazine)

Find an interesting project and determine whether it would be suitable for elementary school students to do in an afternoon (Instructables.com, Make magazine)

 \Box Your idea here...