

Make It at the Library 2016
February Homework

1. Visit some of the following sites to get familiar with some Maker Spaces already out there and resources available:
 - a. <http://www.rochestermakerspace.org/>
 - b. <http://makezine.com/>
 - c. <http://makerspace.com/>
 - d. <http://en.wikipedia.org/wiki/Hackerspace>
 - e. <http://makerfaire.com/>
 - f. <http://makeitatyourlibrary.org/>
 - g. <http://www.makered.org/resources/>
 - h. <https://fflib.org/make>
 - i. [http://wikis.ala.org/yalsa/index.php/Maker %26 DIY Programs](http://wikis.ala.org/yalsa/index.php/Maker_%26_DIY_Programs)

2. LIKE* the Make It at the Library Facebook page at: <https://www.facebook.com/MakeItIdaho>. Each library team needs one person who is able to logon and post to Facebook. Once you like the page, we will promote you to “manager.”

3. Maker overview, resources, and evaluation:
 - a. <http://www.edutopia.org/blog/capture-learning-crafting-maker-mindset-lisa-yokana>
 - b. <http://www.edutopia.org/blog/creating-authentic-maker-education-rubric-lisa-yokana>
 - c. <http://www.inventtolearn.com/resources/>
 - d. Young Makers – a segment of the Maker Education Initiative that you can explore and bookmark for later! <http://makered.org/youngmakers/>
 - e. Remake Learning Playbook: <https://medium.com/remake-learning-playbook>
 - f. Check out the playbook overall but pay particular attention to this section: <https://medium.com/remake-learning-playbook/remaking-learning-for-a-changing-world-cc3790ff010b>

4. Electrical components: Reading materials
 - a. Electricity: <http://science.howstuffworks.com/electricity.htm/printable>
 - b. Circuits: <http://science.howstuffworks.com/environmental/energy/circuit.htm/printable>
 - c. Batteries: <http://electronics.howstuffworks.com/everyday-tech/battery.htm/printable>

5. Electrical components: Videos
 - a. Make Skill-set: <http://makezine.com/2011/01/11/skill-set-understanding-electronic/>
 - i. LED
 - ii. Resistor
 - iii. Capacitor
 - iv. Transistor
 - v. Diode

- vi. Integrated circuit
- vii. Inductor
- viii. Ohms Law
- b. Voltage and current explanation 1: <https://www.youtube.com/watch?v=1YZUXV-v71Y>
- c. Voltage and current explanation 2: <https://www.youtube.com/watch?v=zYS9kdS56l8>
- d. Does voltage or current kill you: <https://www.youtube.com/watch?v=9iKD7vuq-rY>
- e. AC and DC power: <https://www.youtube.com/watch?v=vN9aR2wKv0U>
- f. Sparkfun Voltage, Current, and Resistance: <https://learn.sparkfun.com/tutorials/voltage-current-resistance-and-ohms-law>
- g. Electronics and Sensors: <http://makezine.com/magazine/make-37/electronics-fundamentals-sensor-smorgasbord/>