Hack BI VII

Engineering I -

Circuits

Get Started : (What software is required for participants of the workshop)
We don't believe software is necessary for this workshop. If it is, we will use Multisim, a circuit simulator that is already installed on school lab computers.

Uses: (How is the topic of your workshop used)
Circuitry is used in our workshop as participants will learn about circuit design with a potential activity in the works, which will likely be a small soldering project that will help participants closely interact with our topic.

Purpose: (Why would someone want to attend your workshop)
Our workshop is designed so that participants can learn about circuits and how they power the tools we use in our everyday lives.

Goal: (What are you teaching and what do you want attendees to know after your workshop)
In our workshop, attendees will learn the basics of circuit design and apply these principles to a small project. Our goal is for participants to gain familiarity with important electronic components, such as resistors and capacitors. By the end of the workshop, attendees will have a good understanding of how these components work together in electronic circuits and how to apply this knowledge to other projects.

Topics: (What are the main topics you will cover in your workshop)
The primary topic covered in this workshop is circuitry. Particularly, we will cover how power flows through a circuit and is impacted by resistors, capacitors, and gates that help a circuit fulfill its purpose.

Resources Used: (Resources that are helpful in learning about your workshop topic)
We can use the curriculum from the Honors Digital Electronics class; we all have taken the class and can use past notes and class materials to enhance our knowledge and pass it on to workshop participants. Moreover, All About Circuits (https://www.allaboutcircuits.com) is a good resource to

learn more and/or provide participants with more references to learn further following the workshop.