

Presenter Name: _____

Location: 260

Subject (Circle All That Apply): Science **Technology** Engineering Arts Mathematics

Grade Level (Circle All That Apply): **Middle School** **High School** **Collegiate**

Topic Title: _____

Lesson Focus and Goals

SUBJECT OBJECTIVE:

1. Understand LEDs, resistors, potentiometers, and photoresistors.

JHSL OBJECTIVE:

1. Work with students to get them a hands on experience with embedded electronics.
2. Expose students to critical thinking skills in the STEM field.

Texas Essential Knowledge and Skills (TEKS)

Principles of Technology; c.6.A & c.6.B. **AC/DC Electronics;** c.4.A, c.4.C, c.4.D, c.9.A, c.9.C, c.10.A, c.10.C & c.11.C. **Solid State Electronics;** c.4.C & c.6.B. **Engineering Design and Presentation I;** c.7.A, c.7.B, c.7.C, c.8.A & c.8.B. **Engineering Design and Presentation II;** c.8.B. **Engineering Design and Problem Solving;** c.5.A, c.5.B, c.5.C, c.5.D, c.5.F, c.5.G & c.5.K. **Practicum in Science, Technology, Engineering, and Mathematics;** c.2.A, c.2.C & c.5.A. **Extended Practicum in Science, Technology, Engineering, and Mathematics;** c.3.A, c.3.C, c.6.A, c.(.)-2(B)-7(.)-2364.99a1802 0 7925h/F1 11.04 Tf1 0 0 1 451.

Brief explanation as to what the SparkFun

<p>There are many components to a mini-computer and not everything will be used.</p>	
<i>New Content</i>	
<p>What the RedBoard is and what component we will use on it and for what. How software and hardware can interact with each other. Concepts and tools like LEDs, Polarity, Resistors, and potentiometers and photometers.</p>	<p>Complete a simple LED circuit. Understand code and what each method does pertaining to the components being used by the computer. Understand that are used in the electrical world. Have an idea of the trial-and-error programmers use in the real world.</p>
Assessment	

Students will be asked to complete a quick evaluation