Goals & Success Factors

Lesson Goal

- To understand the question "what a micro-controller?"
- Learn about different types of Arduino
- Learn how to setup an Arduino
- Understand Analogue and Digital
- Learn how to create the most basic Arduino project

Lesson Success Factor(s)

- Setup an Arduino successfully
- Complete the Arduino Blink project

Runsheet (Guideline)

00:00 Introduction
00:05 Goals & Success Factors
00:10 What is an Arduino?
00:20 Analogue vs Digital
00:25 Arduino PINs
00:30 Build Blink Circuit
00:45 Code & Test Blink Circuit
01:00 Finish

Extension(s)
      Change the resistor
      Add another LED

Students Pre-work

Watch the following video:
Introduction to Arduino: youtu.be/09zfRaLEasY

Teachers Pre-work

Watch the following video:
Introduction to Arduino: youtu.be/09zfRaLEasY

Student Homework

Watch the following videos:
Recap of Arduino hardware and software: bit.ly/ytp01-led-blink

Knowing your way around the Arduino Editor: bit.ly/ytp01-the-arduino-editor

Handouts (optional)

Please download from: https://github.com/nexgencodecamp/ytp/modules/arduino