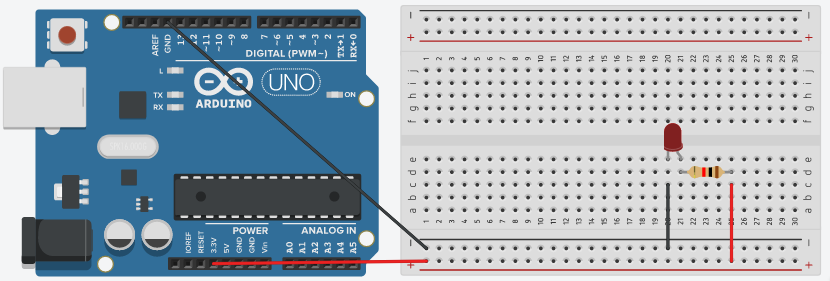
**iCREAT I - Module 2: Introduction to Project Components and TinkerCAD**



# horizontal line

# Objectives

* Learn about TinkerCAD and how to simulate an electronic circuit
* Learn about the coding tools we will use with the Arduino
* Identify project components
* Simulate and implement circuits
* Manipulate an LED with code on the Arduino

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# TABLE of CONTENT: Module 2

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Topic** | **Activities** | **Faculty** |
| **Module 2** | | | |
| 1 & 2 | **Equipment List** | Go over the software and Equipment list for iCREAT I:  **iCREAT I - Module 2 - List of Components**  To purchase these components, review:  **iCREAT I - Electronic Components and Software List** |  |
|  | **Telepresence Discussion** | Based on the equipment you will be working with; discuss the ideas you have for building the telepresence base. (**In class discussion**)  Use the ideas on your **iCREAT I - Module 1 - LAB: Final Project Requirements** |  |
| 3 | [**Arduino**](https://www.arduino.cc/) and [**TinkerCAD**](https://www.tinkercad.com/) | Present: **iCREAT I-Module 2 - Introduction to Arduino and TinkerCAD** |  |
| 4 | **Practice:**  **LAB 1** | Follow instructions inthis lab to practice simulating and physically modeling a circuit.  **LAB**: **iCREAT I-Module 2 - LAB 1: Lighting up an LED** |  |
| 5 | **Practice:**  **LAB 2** | Follow instructions inthis lab to blink the Arduino’s embedded LED.  **LAB**: **iCREAT I-Module 2 - LAB 2: Intro to Arduino Tinkercad LED** |  |
| 6 | **To prepare for the next Module, watch videos and take notes** | **Videos for Module 3: Study Electronics and coding** |  |