MODULE 2

Soldering 101

OVERVIEW
Learn to solder by populating and soldering a circuit with blinking lights! A hands-on introduction to learn the basics of soldering. Includes the use of various tools, active use of safety practices, learning how to identify a good solder joint, and what to do if the need arises to desolder.

MATERIALS
- Soldering 101 Kit
- Soldering Iron
- Solder
- Wire “Sponge”
- Safety Glasses
- Wire Snippers
- Solder Sucker
- 9V Battery
- Helping Hands
- Secure Power Source

PREREQUISITES
- The Welcome to Balloon Payloads module must be completed prior to this module
- Watch the Electronics and Components video if unfamiliar with circuits

Complete Prerequisites and have all Materials before continuing to activity

1. Solder Safety
   - Know where the soldering iron is at all times!
   - Use safety glasses.
   - Tie long hair back.
   - Know how to respond in case of accidental burn.

2. How to solder
   - Learn to solder/desolder
   - Build confidence by practicing through hole soldering and interacting with circuit components.

3. Creating a circuit
   - Build a simple circuit.
   - Play close attention to component placement and polarity.
   - Learn to troubleshoot if circuit isn’t functioning

Module Video: Soldering 101

NEXT STEPS
After completing all aspects of this module, you can move on to Module 3: Arduino Introduction