

# Activity 1.1 Introduction to Communicating with Light and Sound Teacher Notes

## Introduction

Light and sound can be created naturally or using human-made products. Students will work through a short activity on the iPad® tablets to prompt their curiosity about sources of natural and human-made light and sound.

All products created by designers and engineers were created to meet a human need or want. One human need is to communicate over a distance. In this activity students will be introduced to the design problem they will solve at the conclusion of the module.

## Equipment

- Light and Sound Introduction
- iPad® tablets
- Launch Log for each student

## Procedure

### Fictional Story

1. The teacher reads aloud the Light and Sound Introduction. This is a fictional story that describes the problem three friends experience as they are lost and need to communicate with either light or sound.
2. The teacher leads a class discussion about the problems faced by the students. The teacher guides students to identify the need to call for help or communicate with others as the main problem.
3. The students draw a picture of the problem on Page 1 of their Launch Logs.

### Design Process

4. The teacher presents the design process slide show entitled *Design Process*. Students fill in the steps of the design process in their Launch Logs during the presentation.

## Conclusion Questions for Discussion

1. What is the problem faced by Suzi, Mylo, and Angelina?
2. If you could give the characters any human-made product to use to get help, what would it be and why?