



Lights On **Pre-Visit Information**

Program Information

Description

Lights On teaches young visitors how people communicate using light. Children first learn about light communication through Morse Code and then will create a light communication device. To learn more, a museum educator will guide the group throughout the museum to see real world examples of light being used to communicate with historic artifacts.

Objective

Students will make real world connections to how light and sound have been historically used in communication and explore how to make their own light communication device.

At the end of the program, students will be able to:

- List the major types of communication
- List different methods in which people communicate, particularly with light
- Demonstrate Morse code with a flashlight
- Understand the basics of creating a light communication device
- Point out real world objects that are used in light communication

Preparing for Your Visit

Before taking part in *Lights On*, it is a good idea to spend some time talking with your students about what they can expect at the Museum and discuss the kinds of information that will be covered during the field trip.

Classroom Discussion: Pre-Visit

1. What is communication?
2. What are some ways that we can communicate with people?
3. Can objects tell information? How?
4. How do we use light to communicate?

Classroom Resources: Pre-Visit

1. [Virtual walk-through program](#): check out the museum's virtual space in advance to give your students an idea of what to expect.

2. [Student Youtube Playlist](#): introduce your students to a few of the industries in advance of the tour.
3. Check out this short [video](#) from Youtube explaining Morse Code.

Important Words & Concepts

Museum: a place where people learn about what life was like a long time ago

Industry: another word for work

Communication: sharing information with people

Morse Code: type of communication using dots and dashes with light or sound

Light: type of energy that makes it possible for us to see the world around us

Trip Tips

To ensure a successful field trip to the Baltimore Museum of Industry, students should:

- Stay with their chaperones at all times
- Use their inside voices
- Walk at all times
- Raise their hands when they have a question or comment
- Treat teachers, chaperones and peers with respect
- Follow the lead of the museum teacher throughout the program