



CAPE COD MARITIME MUSEUM

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Coastal Communication

Lesson Goal:

Technology has changed how ships communicate with people on shore. This class will discuss those changes, from signal cannons and signal flags, Morse code to radio transmissions.

Lesson Objectives:

The students will:

- understand the reasons for lighthouses.
- learn why signal cannons were carried on ships.
- learn the signal flag language and its place in modern communication.
- design and create their own signal flag message.
- learn how Morse code works.
- apply their new knowledge to message transmission.
- learn about satellite and radio transmissions.

Assessment:

The teacher will:

- facilitate discussion for students to share their existing knowledge.
- observe students drawing their names in signal flag language and Morse code.
- operate Morse code simulator and analyze students' abilities to understand message.
- observe students' engagement.
- encourage students to analyze the different technologies.

Frameworks:

- *1-PS-4 Waves and their Applications in Technologies for information Transfer* 1-PS4-1; 1-PS4-4
- *4-PS3 Energy* 4-PS3-2; 4-PS3-3
- *4-PS4 Waves and their Applications in Technologies for Information Transfer:* 4-PS4-1; 4-PS4-3
- *MS-PS3 Energy* MS-PSS-7(MA)
- *MS-PS4 Waves and their Applications in Technologies for Information Transfer* MS-PS4-1; MS-PS4-2; MS-PS4-3

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For More Information About this Class:

This class can be designed by the Museum staff for any grade level from k-12, and can be taught at the Museum or in the school classroom. To see how it can meet your educational needs, and for an estimate of costs per students, please contact CCMM’s Education Coordinator and STEM teacher, Deirdre Detjens, at 508-775-1723 or ddetjens@capecodmaritimemuseum.org

CCMM Education Mission:

Cape Cod Maritime Museum provides students and educators of all ages, real-world, interactive, inquiry-based, learning opportunities utilizing Cape Cod centric pedagogy to inspire an enduring connection with Cape Cod maritime culture. With a comprehensive suite of educational programs, our science, technology, engineering, art and math topics drawn from our own coastal marine environment enabling students to embrace new knowledge and skills in a way that is relevant to Cape Cod and our local culture. All classes are based in an appreciation and respect for Cape Cod’s maritime past, present and future.