# Send Morse Code

Created in the early 1840's by Samuel F.B. Morse, Morse code is an international form of communication that replaces the letters of the alphabet with dots and dashes of sound or light. Sailors and submariners can use Morse code to communicate over distances such as from one ship to another ship or from a ship to the shore. Morse code can be sent by flashes of light, or by using a telegraph (a device that uses wires like telephone lines to transmit signals) or a radio transmitter.

Follow the directions below to send a Morse code message to your friend. Remember to give them a copy of the Morse Code Chart or they will not be able to decode your message. If you have a flashlight, we have directions for sending a message with that, too.

**You will need:**
- Pencil
- Paper
- Copy of Morse Code Chart
- Flashlight (optional)

**Directions:**
1. Print out two copies of the Morse Code Chart (one for you and one for a friend).
2. Write out your message on a piece of paper.
3. Send you message to your friend.

**Sending a written message? Check out this tip:**
When writing out the message, place a front slash (/) between letters so the person decoding it will know when a new letter or number is beginning and ending. For example, the message 'hello' will look like this:

● ● ● ● / ● / ● — ● ● / ● — ● ● / — — —

**Sending a message with a flashlight? Check out this tip:**
When sending a message using a flashlight, you should pause for one second between each letter to allow the reader to decipher your message. It's also a good idea to write out your message (see tip above) The front slash will then represent the pause between letters.

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## Morse Code Chart

| | | | | | |
|---|---|---|---|---|---|
| **A**<br>● ▬ | **B**<br>▬ ● ● ● | **C**<br>▬ ● ▬ ● | **D**<br>▬ ● ● | **E**<br>● | **F**<br>● ● ▬ ● |
| **G**<br>▬ ▬ ● | **H**<br>● ● ● ● | **I**<br>● ● | **J**<br>● ▬ ▬ ▬ | **K**<br>▬ ● ▬ | **L**<br>● ▬ ● ● |
| **M**<br>▬ ▬ | **N**<br>▬ ● | **O**<br>▬ ▬ ▬ | **P**<br>● ▬ ▬ ● | **Q**<br>▬ ▬ ● ▬ | **R**<br>● ▬ ● |
| **S**<br>● ● ● | **T**<br>▬ | **U**<br>● ● ▬ | **V**<br>● ● ● ▬ | **W**<br>● ▬ ▬ | **X**<br>▬ ● ● ▬ |
| **Y**<br>▬ ● ▬ ▬ | **Z**<br>▬ ▬ ● ● | **0 (zero)**<br>▬ ▬ ▬ ▬ ▬ | **1 (one)**<br>● ▬ ▬ ▬ ▬ | **2**<br>● ● ▬ ▬ ▬ | **3**<br>● ● ● ▬ ▬ |
| **4**<br>● ● ● ● ▬ | **5**<br>● ● ● ● ● | **6**<br>▬ ● ● ● ● | **7**<br>▬ ▬ ● ● ● | **8**<br>▬ ▬ ▬ ● ● | **9**<br>▬ ▬ ▬ ▬ ● |

**Practise writing out the words below in Morse code:**

**SOS** _____

**Hello** _____

**Goodbye** _____

**Help** _____

**How are you?**