Standards Covered: (a), (b), (c)**,** (d)**,** (e), (f)

1. Split into 4 groups and evaluate and discuss the following URLs as a group. Do this after reading the URL individually *(15 min)*

History of Morse Code: <http://www.history.com/topics/inventions/telegraph>

1. Share what you have learned with the rest of the class by electing a leader to summarize your research. Prompt: Include one interesting fact and question you have after reading the article and discussing things among your groups *(10 min)*
2. Load the Simulink file: ButtonWithLightsFunctionStyle.slx in your miniQ robots if you don’t already have it there.
3. Watch:
4. Video of SOS with a flashlight: <https://www.youtube.com/watch?v=CETGq7sqytE>
5. Other Letters in Morse Code: <http://rsgb.org/main/files/2012/10/Morse_Code_Sheet_01.pdf>
6. Activity *(30 min)*
   1. Individually and in private, think of a word you’d like to share with a partner. You will learn how to communicate this word in Morse code.
   2. Practice communicating this code with your miniQ robot by button press. Do so in private.
   3. Circulate around the room and share your Morse Code pattern with others. See if they can decode the results. Note: use the Morse Code handout to help with the decoding process.
7. Group Discussion *(30 min)*
   1. How does Morse code relate to the code we write for a computer?
   2. What are the differences between how we communicate information to machines vs. people.
   3. What are some of the ways in which people communicate with each other daily? Between cultures what is a potential barrier to communication?
   4. Is there a form of communication which transcends language? Idea: think of a paintbrush.

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