What Is Bluetooth? Worksheet Answer Key

Part 1

1. **What is an electrical connection?**

   An electrical connection is the link or bond that passes electricity between two or more things.

2. **Give two examples of electrical connections.**

   Example answers: **The link between a remote control garage door opener and a garage door. The link between a Wii remote and a Wii.**

3. **What is the difference between wired and wireless connections? What is an advantage of using wireless connections?**

   In a wireless connection, electricity is not passed through a physical wire, but instead travels through the air (or another medium) as waves. A wireless connection has the benefit that the communicating devices do not have to be physically connected, allowing for greater freedom and movement.

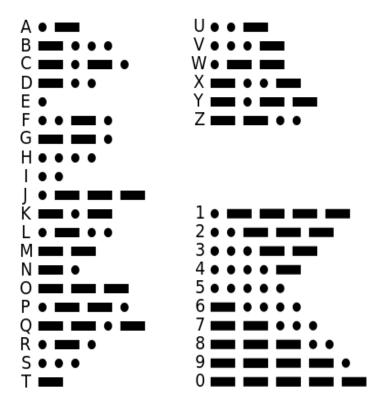4. **What is the name of the wireless electrical connection that the EV3 can make?**

   Bluetooth

Part 2

International Morse Code

1. The length of a dot is one unit.
2. A dash is three units.
3. The space between parts of the same letter is one unit.
4. The space between letters is three units.
5. The space between words is seven units.

Source of Morse code chart: http://en.wikipedia.org/wiki/Morse_code

Here are some examples:
(Note: a slash / is used between words)

"**Hello**" in Morse code is:

.... . .-.. .-.. ---

"**How are you?**" is:

.... --- .-- / .- .-. . / -.-- --- ..-

Write the Morse code for the following:

1. "**This is fun**"

   - .... / .. ... / ..-. ..- -.

2. "**Thank you**"

   - .... .- -. -.-/ -.-- --- ..-

3. "**I love you**"

   .. / .-.. --- ...- . / -.-- --- ..-

4. "**Move on**"

   -- --- ...- . / --- -.