**Robot Soccer Challenge Pre-Quiz Answer Key**

1. **What kind of wireless electrical connection can NXT robots use to communicate with other electrical devices (including other NXTs)?**

**Bluetooth technology is a wireless electrical connection that enables communication between electrical devices.**

1. **Can you think of a way to use a Bluetooth connection to enable one NXT robot to remotely control another? Describe it.**

**Let’s call one NXT the “controller” and the other NXT the “receiver.”**

**When each button (orange, left, right) is pressed on the controller NXT, have the controller send a distinct message (“1,” “2,” “3”) via Bluetooth to the Receiver. When no button is pressed on the controller NXT, have the controller send another distinct message (“0”) to the receiver.**

**Program the receiver so that…**

* **when it receives “1” it moves forward**
* **when it receives “2” it moves left**
* **when it receives “3” it moves right**
* **when it receives “0” it does nothing**