

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.

2. 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**