

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

1. What kind of wireless electrical connection can **EV3** robots use to communicate with other electrical devices (including other **EV3s**)?

**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 **EV3** robot to remotely control another? Describe it.

**Let's call one EV3 the "controller" and the other EV3 the "receiver."**

**When each button (orange, left, right) is pressed on the controller EV3, have the controller send a distinct message ("1," "2," "3") via Bluetooth to the Receiver. When no button is pressed on the controller EV3, 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**