

Name: _____ Date: _____ Class: _____

Remember Your Arduino Pre-Quiz **Answer Key**

1. How does the Arduino connect to the computer?

The Arduino board connects to the computer via a USB port from the computer to a USB port on the Arduino board.

2. What are the two basic functions needed to code in Arduino and what are they used for?

The `setup()` function, which is called once when a program (sketch) starts. It is used to initialize variables, pin modes and libraries.

The `loop()` function, which runs continuously after the code starts. This is where you program events to happen such as the blink of a light, the activation of a servomotor or the reading of a sensor value.

3. How does an IR sensor work?

An IR sensor gives off infrared light forward that can be reflected off an object in front of the sensor in order to detect its presence.

4. How can you make a servomotor go clockwise or counter-clockwise or stop?

To go clockwise, send to the servo a set of pulse widths less than 1,500 microseconds.

To go counter-clockwise, send to the servo a set of pulse widths greater than 1,500 microseconds.

To stop, send to the servo a set of pulse widths equal to 1,500 microseconds.