Name: _____ Date: _____ Class: _____

Color Sensor Post-Quiz Answer Key

1. **How does the LEGO EV3 color sensor work?**

    The light sensor detects the brightness of the light it receives and uses a scale of 0 (very dark) to 100 (very light). Then it sends this signal to the intelligent brick/computer.

2. **Provide an example "stimulus-sensor-coordinator-effector-response" framework using the EV3 color sensor.**

    ***Example*: light > EV3 color sensor > (transmission to coordinator) value sent to EV3 brick via wire > brick sends a signal to the EV3 motors > robot moves**

3. **Give some examples of color sensors in engineering systems.**

    ***Examples*: cameras; sensors that turn lights on when it gets dark; porch lights, streetlights and car headlights that turn on automatically in low light or at night**