**Light Sensor Post-Quiz Answer Key**

1. **How does the LEGO NXT light sensor work?**

**The light sensor detects the brightness of the light it receives and converts it to a numerical value as a percentage (%) of the maximum brightness it can detect.**

1. **Provide an example “stimulus-sensor-coordinator-effector-response” framework using the NXT light sensor.**

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

1. **Give some examples of light 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**