

Name: _____ Date: _____

Human & Robot Reflexes Quiz **Answers**

1. What are reflexes?

A reflex is an involuntary body movement in response to something. You do not even have to think about it. Reflexes make sure that our bodies are not harmed, that is, they automatically protect our bodies from injury.

2. Provide two examples of human reflexes.

List the “stimulus-sensor-coordinator-effector-response” components of each reflex.

Blinking of eyes when something comes toward them.

The stimulus is something coming towards the eye(s); sensor is the eye; coordinator is the brain; effector is the eye muscles; response is the blink movement.

3. Describe how a robot with sensors can be used to mimic a reflex action.

Using a touch sensor, a robot can be programmed to “run” back quickly when the sensor is activated. This is similar to how we quickly jerk back our hands after touching hot objects.