**PROCESSOR** *(What receives the information, makes sense of it, and orders the response?)*

**SENSOR** *(What detects the**stimulus***?***)*

**EFFECTOR** *(What takes action? Muscles? Glands? Both?)*

**Input message:** *How is the information transmitted (Neurons? Hormones? Both?)*

**Output message:** *How are the "orders" transmitted?*

*(Neurons? Hormones? Both?)*

**Response *(****What does the effector do?)*

*OPTIMAL RANGE*

**NEED:**

**Stimulus** *(or "stressor") What does the body detect?)*

**Phenomenon:**

*(What happens?)*

**How the body adjusts to change in the internal or external environment and maintains stable conditions for its cells.**

**GENERIC FEEDBACK LOOP**