Feedback Mechanisms

How do organisms regulate complex systems through chemical interactions?

Why?

The heating system of a house works to keep the temperature constant. If the house gets too cold, then the heat automatically turns on to warm the house. The heat stops when the preset temperature is reached. This is an example of a **feedback mechanism**. Organisms use many feedback mechanisms to either maintain or amplify important chemical systems. This could happen at a molecular level to coordinate the function of a single enzyme or it could happen throughout the body to regulate the organism's internal temperature.

Model 1 - Positive and Negative Feedback

Stimulus Negative Response Stimulus Positive Response Feedback

Stimulus is decreased.

Stimulus is increased.

- What two types of feedback mechanisms are illustrated in Model 1? Positive and Negative
- Define the words below as they are used in everyday language. Stimulus - Something that causes a reaction to occur

Signal - message sent i.e. phone call

Response - reaction to a stimulus i.e. move away from a hot object

Identify at least three similarities in the two types of feedback mechanisms in Model 1.
 Three similarities: Stimulus, signal, response

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