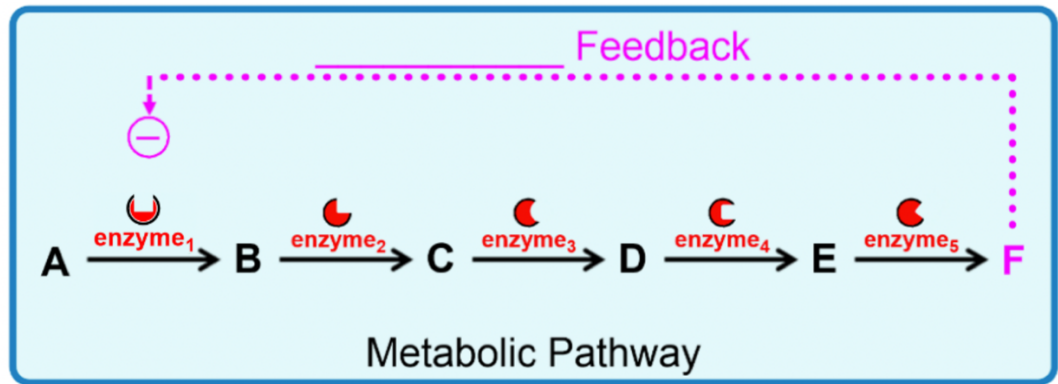


## CONCEPT: NEGATIVE & POSITIVE FEEDBACK

### Negative Feedback

●When the final product of a *metabolic pathway* \_\_\_\_\_ an earlier step in the same pathway.

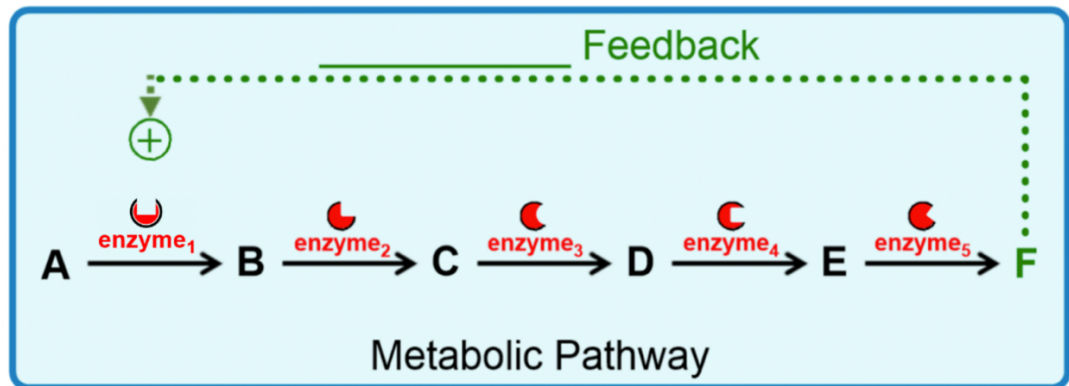
**EXAMPLE:** Negative Feedback acts like the “red light” to inhibit (-) metabolic pathways.



### Positive Feedback

●When the final product of a *metabolic pathway* \_\_\_\_\_ an earlier step in the same pathway.

**EXAMPLE:** Positive Feedback acts like the “green light” to further stimulate (+) metabolic pathways.



**PRACTICE:** \_\_\_\_\_ is when the product of a biochemical pathway activates the production of itself.

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| a) Negative feedback inhibition. | c) Substrate feedback inhibition. |
| b) Positive feedback.            | d) Product feedback inhibition.   |

**PRACTICE:** Which of the following is TRUE about feedback inhibition?

- a) Feedback inhibition has no physiological importance.
- b) Multiple products are required for feedback inhibition.
- c) Feedback inhibition of a pathway can only be accomplished by the products of that pathway.
- d) Feedback inhibition involves products binding to the active site to prevent enzyme activity.