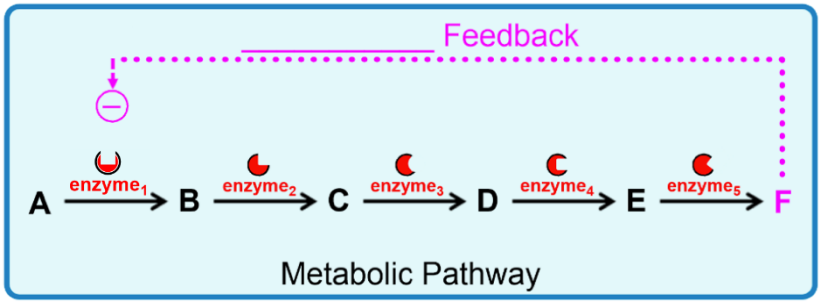
CONCEPT: NEGATIVE & POSITIVE FEEDBACK

Negative Feedback

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

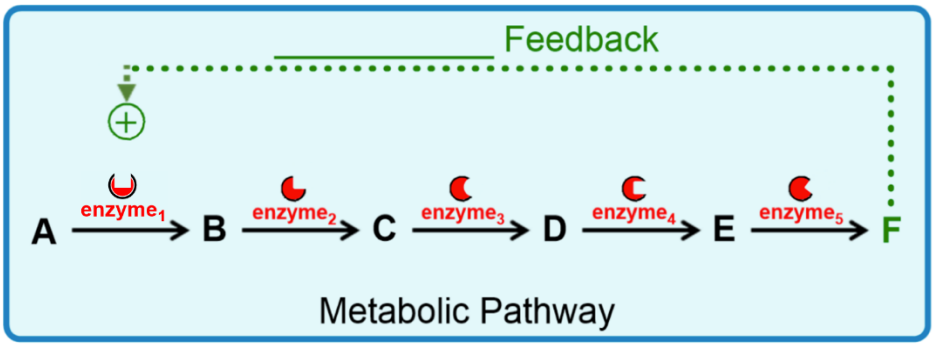
EXAMPLE: Negative Feedback acts like the "red light" to inhibit (-) metabolic pathways.



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.
b) Positive feedback.
c) Substrate feedback inhibition.
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.