

# 8.1 Metabolism

## Enzymes

*Explain how enzymes catalyse chemical reactions*

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*Distinguish between exergonic and endergonic reactions*

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## Inhibitors

*Outline, with the aid of a diagram, how a competitive inhibitor affects enzyme activity*

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*Give a specific example of a competitive inhibitor*

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Outline, with the aid of a diagram, how a non-competitive inhibitor affects enzyme activity

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Give a specific example of a non-competitive inhibitor

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On the graph below, show the impact of a competitive and non-competitive inhibitor on reaction rate

Competitive inhibitor:

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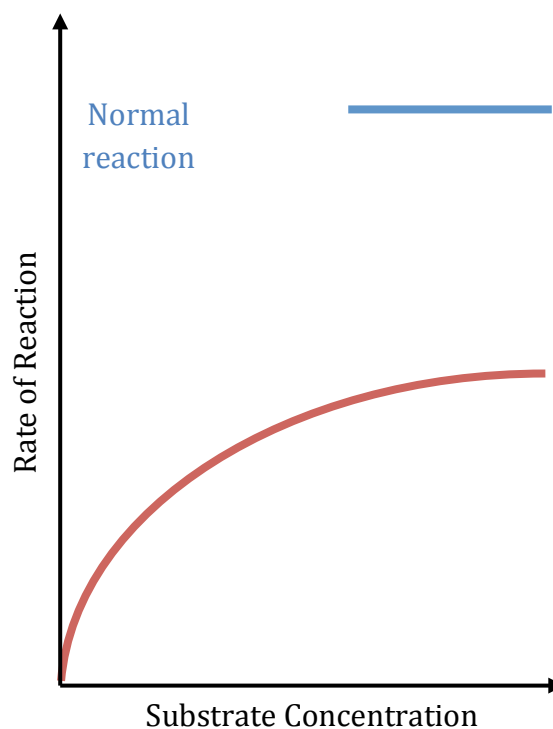
Non-Competitive inhibitor:

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*Outline, with the aid of a diagram, how metabolic pathways are controlled by end-product inhibition*

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*Give a specific example of end-product inhibition*

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*Outline, with an example, how bioinformatic databases are used to identify potential new drugs*

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*Identify an example of a metabolic pathway that forms a chain*

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*Identify an example of a metabolic pathway that forms a cycle*

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