

SUGGESTED SKILL

 *Concept Explanation***1.B**

Explain biological concepts and/or processes.

TOPIC 3.1

Enzyme Structure

Required Course Content

ENDURING UNDERSTANDING

ENE-1

The highly complex organization of living systems requires constant input of energy and the exchange of macromolecules.

LEARNING OBJECTIVE

ENE-1.D

Describe the properties of enzymes.

ESSENTIAL KNOWLEDGE

ENE-1.D.1

The structure of enzymes includes the active site that specifically interacts with substrate molecules.

ENE-1.D.2

For an enzyme-mediated chemical reaction to occur, the shape and charge of the substrate must be compatible with the active site of the enzyme.