

3.1

Describe the structure of enzymes and explain why enzymes are specific to one substrate.

3.2

Explain how enzymes affect the rate of biological reactions.

3.3

Describe one environmental factor that would likely affect the structure of an enzyme and the **explain** how that change in structure “could” alter its function.

3.4

Describe the concept of energy coupling within biological organisms. As a result of energy coupling the input of energy into a biological must be (greater than / less than / or equal to) the loss of energy.

Explain your answer.

3.5

Describe the reactants, products and role of both the light independent reactions and the light dependent reactions.

3.6

Protons and electrons are vital components in cellular respiration. **Describe** the source of electrons, their final destination and the role they played in ATP production.

Describe role of protons in ATP production.

3.7

Explain the importance of variation at the molecular level.