

Subject: Lab Biology

Grade Level(s):High School



**4.0**

**In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard**

**The student will:**

- Show mastery of all concepts taught and be able to apply them to new problems.

**No major errors or omissions regarding the score 4.0 content**

**3.5** In addition to score 3.0 performance, in-depth inferences and applications with partial success



**3.0**



**The student will be able to:**

- Discuss the effects of different environmental conditions on the functions of enzymes.
- Interpret how enzymes effect the energy requirements of reactions and diagram the enzyme-substrate complex.

**No major errors or omissions regarding the score 3.0 content (simple or complex)**

**2.5** No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content



**2.0**

**The student recognizes and describes specific terminology such as:**

- Enzyme-substrate complex
- Denaturation
- Activation energy
- pH

**The student will be able to:**

- Explain how enzymes are specific to their substrates.
- Explain that enzymes can be changed

**No major errors or omissions regarding the simpler details and processes but major errors or omissions regarding the more complex ideas and processes**

**1.5** Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content

**1.0**

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

**0.5** With help, a partial understanding of the score 2.0 content, but not the score 3.0 content

**0.0**

Even with help, no understanding or skill demonstrated