**Enzyme Project**

Directions: Design a poster or create a virtual infographic. Please include the following items on the poster/ infographic

**Terms**

* Enzyme
* Hydrolysis
* Dehydration -Synthesis
* Active site
* Substrate
* Enzyme- Substrate Complex
* Denature
* Competitive Inhibitor

**Enzyme Drawing**

* Draw an active enzyme
* Name your enzyme (must end in -ase)
* Name your substrate
* State the function of your enzyme
* State whether the reaction is dehydration synthesis or hydrolysis
* Label your drawing: enzyme, substrate(s), active site, enzyme- substrate complex, product(s)

**Denatured Enzyme Drawing**

* Draw what would occur if your enzyme was denatured
* Describe how the enzyme becomes denatured
* Label your drawing: enzyme, substrate(s), denatured active site

**Competitive Inhibitor Drawing**

* Draw what would occur if a competitive inhibitor were introduced
* Label your drawing: enzyme, substrate(s), competitive inhibitor, active site

**Rubric:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CATEGORY | **10** | **8** | **5** | **1** |
| Diagrams & Illustrations | Diagrams and illustrations are neat, well designed and visually appealing | Diagrams and illustrations are accurate, complete but could be neater | Diagrams and illustrations are complete but not visually appealing | Diagrams and illustrations are incomplete and not visually appealing |
| Labels | All items that needed to be identified has a label. It is clear which label goes with each structure | 90% of the items that needed to be identified are labeled. It is clear which label goes with each structure | 80% of items that need to be identified are labeled OR it is not clear which label goes with each structure | Less than 75% of items that need to be identified have labels and it is not clear which label goes with each structure |
| Content | Content is accurate and shows a very good understanding of the topic | Content is 90% accurate and shows a decent understanding of the topics | Content is incorrectly displayed but shows some understanding of the topics | Content is inaccurate and shows very little understanding of the topics |
| Terms | All words are included and accurately described | 6 words are included and accurately described | 4 words are included and accurately described | 2 words are included and accurately described |
| On Time | Project is turned in by the due date | Project is one day late | Project is 2-5 days late | Project is more than a week late |
| Score \_\_\_\_\_\_\_\_\_\_/50  |