**Protein Project**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Due: Tuesday September 24, 2019**

Create a display that includes 3D representations of each of the 4 levels of protein folding. Each level should incorporate the components of the level below it to maintain accuracy.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement** |  | **15 pts** | **10 pts** | **5 pts** |
| **Primary Structure** | * Accurate representation of a polypeptide chain of amino acids
* Bonds correctly labeled
* Description of this protein structure level and the role of bonds
 |  |  |  |
| **Secondary Structure** | * Accurate representation of secondary structure while maintaining representation of primary structure and amino acids
* Accurate and labeled alpha (α) helix
* Accurate and labeled beta (β) pleated sheet
* Bonds correctly labeled
* Description of this protein structure level and the role of bonds
 |  |  |  |
| **Tertiary Structure** | * Accurate representation of tertiary structure while maintaining representation of secondary structure
* Bonds correctly labeled
* Description of this protein structure level and the role of bonds
 |  |  |  |
| **Quaternary Structure** | * Accurate representation of quaternary structure while maintaining representation of tertiary structure
* Bonds correctly labeled
* Description of this protein structure level and the role of bonds
* Describe a real life example of a protein that confers a quaternary structure
 |  |  |  |
| **Logistics** | * Project is 3D format
* Organized
* No spelling/grammar errors
 |  |  |  |
| **Aesthetics** | * Creative use of materials
* Good use of color 7 design
* Neat
 |  |  |  |
| **Total Score & Comments** | **\_\_\_\_\_\_ / 80** |

Late Point Deductions: (- 5pts each day late)

**Protein Project**

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| **Total Score & Comments** | **\_\_\_\_\_\_ / 80** |

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