Name:_____ Period:

**Integrated Science Genetics Plus Unit Portfolio Evaluation**

**Directions:**

**1. Select assignments that demonstrate you have learned the science content in Column 1.**

**2. Write the names of the assignments that will be used as evidence that you learned the standards in Column 2.**

**3. On a separate sheet of paper, describe the concepts that you learned from each assignment. *Be as detailed as possible*. You should write approximately one paragraph for each assignment.**

**4. Turn in your portfolio in the following order:**

- **a. Your Table of Contents**
- **b. This page**
- **c. Your description of the evidence**
- **d. All of the assignments you are using as evidence in order**

| **Column 1: Content Standards** | **Column 2: Names of assignments to be used as evidence of learning** | **Evidence of Mastery Grade 0 1 2 3 4 5** | **Growth 0 1 2 3 4 5** |
|---|---|---|---|
| A. Students can state how the levels of biological organization (**atom, molecule, macromolecule, cells,** tissues, organs, organ systems, organism) act together to carry out the body's functions. | | | |
| B. Part I: Students understand that monomers make up larger polymers<br>Part II: can describe the structures/functions of the major compounds of life (carbohydrates, proteins, lipids, and nucleic acids) | Part I<br>Part II | | |
| C. Students can explain how our food provides the building blocks for the macromolecules in our cells. | | | |
| D. Students can describe the structures and functions of DNA, RNA, and Proteins. | 1. DNA Structure and Function<br>2. RNA structure and Function<br>3. Protein Structure and function | | |

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|---|---|---|---|
| E. Students can explain the steps of DNA replication and understand it's role in how each new cell acquires a copy of the organism's genome | | | |
| F. Students know that protein synthesis is the process in which genes are expressed and can explain the steps | | | |
| G. Students can determine a protein's amino acid sequence by transcribing DNA→ RNA, and subsequently translating the RNA→ Protein | | | |
| H. Apply rules of Mendelian inheritance patterns and use Punnett Squares to predict the genotypes and phenotypes in monohybrid, dihybrid and sex-linked crosses. | | | |