Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_

**Mind Map Assignment (Science 10: Topic 1.1 – DNA)**

Throughout this unit, you will be gradually building a mind map of your understanding of all key vocabulary words. This will occur in stages with smaller mind maps; at the end, you will assemble the whole thing as an assignment to submit.

You will be assessed according to the following scale. Do not lose this assignment sheet; it will need to be handed in with your final assignment for marking and feedback purposes.

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| **Extending** | **Proficient** | **Developing** | **Emerging** |
| * May include additional words that *add value*
* Demonstrates sophisticated understanding of concepts: definitions, examples, analogies and diagrams are nuanced
* Makes meaningful connections between concepts and explains them clearly and accurately
* Clearly and accurately distinguishes between similar concepts
 | * Includes all words in mind map
* Demonstrates solid understanding of concepts by putting definitions in own words and including own examples, analogies, and diagrams
* Makes a combination of simplistic and meaningful connections between concepts and explains them
 | * Includes majority of words in mind map
* Demonstrates a developing understanding of concepts by relying primarily on definitions, examples, and diagrams found in textbook, powerpoint, and other sources
* Makes simplistic connections between concepts; these may not be thoroughly or accurately explained
 | * Missing key elements of mind map
* Little understanding of vocabulary words is demonstrated
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**List of Required Vocabulary**

*Note: the list of required vocabulary may change depending on how the section is taught.*

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| **Section** | **Vocabulary** |
| **1.1 Concept 1** | Variation |
| **1.1 Concept 2** | Nucleic AcidDNARNANucleotideNitrogenous baseComplementary base pairsAdenineGuanineCytosineThyminePhosphate SugarHydrogen bondsDouble helix Genome |

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| **Section** | **Vocabulary** |
| **1.1** **Concept 3** | ChromosomeChromatinCentromereHomologous chromosomeSex chromosomeAutosomeKaryotypeGeneAlleleTraitMitosis |
| **1.1 Concept 4 and Powerpoint**  | DNA replicationProteinProtein synthesisTranscriptionTranslationmRNAtRNAAmino acidUracilRibosomeCodonAnticodon |

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