

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.

Extending	Proficient	Developing	Emerging
<ul style="list-style-type: none"> <input type="checkbox"/> May include additional words that <i>add value</i> <input type="checkbox"/> Demonstrates sophisticated understanding of concepts: definitions, examples, analogies and diagrams are nuanced <input type="checkbox"/> Makes meaningful connections between concepts and explains them clearly and accurately <input type="checkbox"/> Clearly and accurately distinguishes between similar concepts 	<ul style="list-style-type: none"> <input type="checkbox"/> Includes all words in mind map <input type="checkbox"/> Demonstrates solid understanding of concepts by putting definitions in own words and including own examples, analogies, and diagrams <input type="checkbox"/> Makes a combination of simplistic and meaningful connections between concepts and explains them 	<ul style="list-style-type: none"> <input type="checkbox"/> Includes majority of words in mind map <input type="checkbox"/> Demonstrates a developing understanding of concepts by relying primarily on definitions, examples, and diagrams found in textbook, powerpoint, and other sources <input type="checkbox"/> Makes simplistic connections between concepts; these may not be thoroughly or accurately explained 	<ul style="list-style-type: none"> <input type="checkbox"/> Missing key elements of mind map <input type="checkbox"/> Little understanding of vocabulary words is demonstrated

List of Required Vocabulary

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

Section	Vocabulary
1.1 Concept 1	Variation
1.1 Concept 2	Nucleic Acid DNA RNA Nucleotide Nitrogenous base Complementary base pairs Adenine Guanine Cytosine Thymine Phosphate Sugar Hydrogen bonds Double helix Genome

Section	Vocabulary
1.1 Concept 3	Chromosome Chromatin Centromere Homologous chromosome Sex chromosome Autosome Karyotype Gene Allele Trait Mitosis
1.1 Concept 4 and Powerpoint	DNA replication Protein Protein synthesis Transcription Translation mRNA tRNA Amino acid Uracil Ribosome Codon Anticodon