

Topics I Test II Trimester 2018, 11<sup>th</sup> Grade

<p>Chapter 16: Darwin's Theory of Evolution</p> <p>Section 2: Ideas that shaped Darwin's thinking</p> <p>Pages from booklet: 45-48</p> <p>Vocabulary words: artificial selection.</p>	<ul style="list-style-type: none"> <li>– Define, use, and apply knowledge of vocabulary words.</li> <li>– Identify the conclusions drawn by Hutton and Lyell about Earth's history.</li> <li>– Describe Lamarck's hypothesis of evolution.</li> <li>– Explain the role of inherited variation in artificial selection.</li> </ul>
<p>Chapter 16. Darwin's Theory of Evolution</p> <p>Section 3. Darwin Presents His Case</p> <p>Booklet pages: 49-52</p> <p>Vocabulary words: adaptation, fitness, natural selection.</p>	<ul style="list-style-type: none"> <li>– Define, recognize and describe the concepts of the vocabulary words.</li> <li>– Describe the conditions under which natural selection occurs.</li> <li>– Explain the principle of common descent.</li> </ul>
<p>Chapter 16. Darwin's Theory of Evolution</p> <p>Section 4. Evidence of Evolution</p> <p>Booklet pages: 53-58</p> <p>Vocabulary words: biogeography, homologous structure, analogous structure, vestigial structure</p>	<ul style="list-style-type: none"> <li>– Define, recognize, and describe the concepts of the vocabulary words.</li> <li>– Explain how geologic distribution of species relates to their evolutionary history.</li> <li>– Explain how fossils and the fossil record document the descent of modern species from ancient ancestors.</li> <li>– Describe what homologous structures, molecular biology, and embryology suggest about the process of evolutionary change.</li> </ul>
<p>Chapter 17. Evolution of Populations</p> <p>Section 2. Evolution as Genetic Change in Populations</p> <p>Section 3. Speciation</p> <p>Booklet pages: 59-66</p> <p>Vocabulary words: allele frequency, directional selection, stabilizing selection, disruptive selection, genetic drift, bottleneck effect, founder effect, sexual selection, species, speciation reproductive isolation, behavioral isolation, geographical isolation.</p>	<ul style="list-style-type: none"> <li>– Define, recognize, and describe the concepts of the vocabulary words.</li> <li>– Explain how natural selection affects single gene and polygenic traits.</li> <li>– Describe genetic drift, founder effect and bottleneck effect.</li> <li>– Explain directional, disruptive and stabilizing selection using graphs.</li> </ul>
<p>Chapter 18: Classification</p> <p>Section 1: Finding Order in Diversity</p> <p>Pages from Booklet: 67-72</p>	<ul style="list-style-type: none"> <li>– Describe the goals of binomial nomenclature and systematics.</li> <li>– Identify the taxa in the classification system proposed by Linnaeus.</li> <li>– Write correctly scientific names using the rules studied in class.</li> </ul>

<p>Vocabulary words: binomial nomenclature, genus, systematics, taxon, family, order, class, phylum, kingdom.</p>	
<p>Chapter 18: Classification</p> <p>Section 3: Building the Tree of Life</p> <p>Pages from Booklet: 73-78</p> <p>Vocabulary words: domain, Bacteria, Archaea, Eukarya.</p>	<ul style="list-style-type: none"> <li>– Define, use, and apply knowledge of vocabulary words.</li> <li>– Name the six kingdoms of life as they are currently identified.</li> <li>– Explain what the tree of life represents.</li> <li>– Explain the difference between Achaeobacteria and Eubacteria.</li> </ul>