

AP Topic/Unit, sciencemusicvideos Learning Guide, Tutorial,  
and Qwizcards Unit Name Correlation Guide

Topic #	<b>Link to Student Learning Guides (SLG) in .pdf and Word formats</b>	<b>Link to interactive tutorial</b>	<i>Unit name on Qwizcards.com/admin</i>
n/a	<b>Biology Core Concepts SLG</b>	<a href="#">Biology Core Concepts: A thematic course overview</a>	<i>Core Concept</i>
	<b><u>Basic Chemistry for Biology SLG</u></b>	<a href="#">Basic Chemistry</a>	<i>Chemistry for Biology</i>
	<b><u>Carbon and Functional Groups SLG</u></b>	<a href="#">Carbon and Functional Groups</a>	<i>Carbon and Functional Groups</i>
1.1	<b><u>Structure of Water and Hydrogen Bonding SLG</u></b>	<a href="#">Structure of Water and Hydrogen Bonding</a>	<i>Chemistry of Water</i>
1.3 – 1.7	<b><u>Biological Macromolecules (Introductory Biochemistry) SLG</u></b>	<a href="#">Biochemistry</a>	<i>Biochemistry</i>
2.1, 2.3, 2.10-2.11	<b><u>Cell Structure and Function/Cell Membranes SLG</u></b>	<a href="#">Cell Structure and Function</a>	<i>Cell Structure and Function</i>
2.4 – 2.9	see above	<a href="#">Cell Membrane Structure and Function/Osmosis</a>	<i>Cell Membranes</i>
3.1 – 3.3	<b><u>Enzymes and Enzyme Regulation SLG</u></b>	<a href="#">Enzymes and Enzyme Regulation</a>	<i>Energy and Enzymes</i>
3.4, 3.6	<b><u>Cellular Respiration SLG</u></b>	<a href="#">Cellular Respiration</a>	<i>Cellular Respiration</i>
3,5	<b><u>Photosynthesis SLG</u></b>	<a href="#">Photosynthesis</a>	<i>Photosynthesis</i>
4.1 – 4.4	<b><u>Cell Communication and Cell Signaling SLG</u></b>	<a href="#">Cell Communication and Cell Signaling</a>	<i>Cell Signaling</i>

4.5	<b><u>Feedback/Homeostasis SLG</u></b>	<b><u>Feedback</u></b>	<i>Animal Homeostasis</i>
4.6- 4.7	<b><u>Mitosis and the Cell Cycle SLG</u></b>	<b><u>Mitosis and the Cell Cycle</u></b>	<i>Mitosis/Cell Cycle</i>
5.1, 5.2, 5.10	<b><u>Meiosis, Sex Determination, Nondisjunction, and Chromosomal Variation (SLG)</u></b>	<b><u>Meiosis, Sex Determination, Nondisjunction and Chromosomal Variations</u></b>	<i>Meiosis</i>
5.3 – 5.6	<b><u>Genetics SLG</u></b>	<b><u>Mendelian and Post Mendelian Genetics (including dihybrid crosses, recombination, linkage, and Chi Square)</u></b>	<i>Genetics (M19)</i>
6.1 – 6.2	<b><u>DNA Structure and Replication SLG</u></b>	<b><u>DNA Structure, and Replication</u></b>	<i>DNA Structure and Replication</i>
6.3 – 6.4	<b><u>Transcription and Translation SLG</u></b>	<b><u>Transcription and translation</u></b>	<i>From Gene to Protein</i>
6.5	<b><u>Bacterial Genetic Diversity and Operons SLG</u></b>	<b><u>Bacterial Gene Regulation/Operons</u></b>	<i>Bacterial Genetics and Operons</i>
6.6	<b><u>Eukaryotic Gene Regulation and Expression SLG</u></b> <b><u>Animal Development and Cell Specialization SLG</u></b>	<b><u>Eukaryotic Gene Regulation and Expression</u></b> <b><u>Animal Development and Cell Specialization</u></b>	<i>Eukaryotic Gene Regulation</i> <i>Animal Development</i>
6.7	<b><u>Viruses SLG</u></b>	<b><u>Viruses</u></b>	<i>Viruses</i>
6.8	<b><u>Biotechnology and Genetic Engineering SLG</u></b>	<b><u>Biotechnology and Genetic Engineering</u></b>	<i>Genetic Engineering</i>
7-1- 7.12	<b>Unit 7 (Evolution) SLG (pdf only)</b>	<b><u>Unit 7 (Evolution) Menu</u></b>	<i>n/a</i>
7.1 – 7.5	<b><u>Adaptation, Artificial and Natural Selection, Population Genetics, SLG</u></b>	<b><u>Adaptation, Artificial and Natural Selection, Population Genetics</u></b>	<i>Natural Selection</i> <i>Population Genetics</i>

7.6 – 7.8	<b><u>Evidence for Evolution SLG</u></b>	<a href="#"><u>Evidence for Evolution, Common Ancestry and Continuing Evolution</u></a>	<i>Evidence for Evolution</i>
7.9	<b>Phylogeny and Classification SLG</b>	<a href="#"><u>Phylogeny and Classification</u></a>	<i>Phylogeny</i>
7.10 – 7.12	<b><u>Species, Speciation, and Extinction SLG</u></b>	<a href="#"><u>Species, Speciation, Variation and extinction</u></a>	<i>Species and Speciation</i>
7.13	<b><u>Origin of Life, SLG</u></b>	<a href="#"><u>Origin and Early History of Life, The RNA World</u></a>	<i>Origin of Life</i>
8.1	(under development)	<a href="#"><u>Responses to the Environment (Animal Behavior)</u></a>	<i>Animal Behavior</i>
8.2	<b><u>Ecosystems, SLG</u></b>	<a href="#"><u>Energy Flow through Ecosystems</u></a>	<i>Ecosystems</i>
8.3 – 8.4	(under development)	Population Ecology	
8.5	(under development)	Community Ecology	
8.6	(under development)	Biodiversity	
8.7	(under development)	Ecosystem Disruption	