Links to Guided Reading Questions and Corresponding Videos to Supplement the Reading

Week 1: Quantatative Skills for Biology Thurs 8/9 – Fri 8/17

Ecology: Unit 1 (4 weeks)		
Chapter	**Guided Reading**	**Videos**
Population Ecology and the Distribution of Organisms	Chapter 40 Questions (due 8/24)	Population Ecology: The Texas Mosquito Mystery (Crash Course)
Species Interactions	Chapter 41 Questions (due 8/31)	Community Ecology: Feel the Love (Crash Course)
		Ecological Succession: Change is Good (Crash Course)
Ecosystems and Energy	Chapter 42 Questions (due 9/7)	Ecosystem Ecology (Crash Course)
		The Water and Carbon Cycle (Crash Course)
		The Nitrogen and Phosphorus Cycles (Crash Course)
Global Ecology and Conservation Biology	Chapter 43 Questions (due 9/14)	5 Human Impacts on the Environment (Crash Course)
		Conservation and Restoration Ecology (Crash Course)
		Human Population Growth (Crash Course)

Biochemistry: Unit 2 (3 weeks)		
Chapter	**Guided Reading**	**Videos**
Chemical Context of Life	Chapter 2A Questions (due 9/21)	
Water	Chapter 2B Questions (due 9/21)	Crash Course Water

Carbon and the Molecular Diversity of Life	Chapter 3A Questions (due 9/28)	Crash Course Carbon
Macromolecules	Chapter 3B Questions (due 9/28)	Crash Course Macromolecules
Enzymes	Chapter 6B Questions (due 10/5)	Bozeman Biology Enzymes

Cells: Unit 3 (4 weeks)		
Chapter	**Guided Reading**	**Videos**
A Tour of the Cell	Chapter 4 Questions (due 10/12)	A Tour of the Cell (Bozeman)
Membrane Structure and Function	Chapter 5A Questions (due 10/19)	In Da Club: Membranes and Transport (Crash Course)
Cell Communication	Chapter 5B Questions (due 11/2)	Cell Communication (Bozeman)
		Signal Transduction Pathways
		Effects of Changes in Pathways

Metabolism: Unit 4 (3 weeks)		
Chapter	**Guided Reading**	**Videos**
Introduction to Metabolism	Chapter 6A Questions (due 11/2)	Gibbs Free Energy (Bozeman)
Cellular Respiration	Chapter 7 Questions (due 11/9)	Cellular Respiration (Bozeman)
Photosynthesis	Chapter 8 Questions (due 11/16)	Photosynthesis (Bozeman)

Cell Cycle and Mendelian Genetics: Unit 5 & 6 (4 weeks)			
Chapter	**Guided Reading**	**Videos**	
Cell Cycle	Chapter 9 Questions (due 11/23)	Mitosis (Bozeman)	

Meiosis and Sexual Life Cycles	Chapter 10 Questions (due 11/30)	Meiosis (Bozeman)	
Mendel and the Gene Idea	Chapter 11 Questions (due 12/7)	Mendelian Genetics (Bozeman)	Heredity (Crash Course)
Chromosomal Basis of Inheritance	Chapter 12 Questions (due 12/14)	Advanced Genetics (Bozeman)	
		Genetic Recombination and Gene Mapping (Bozeman)	
		Linked Genes (Bozeman)	

Molecular Genetics: Unit 7 (5 weeks)			
Chapter	**Guided Reading**	**Videos**	
The Molecular Basis of Inheritance	Chapter 13 Questions (due 12/21)	DNA Replication (Bozeman)	Molecular Biology (Bozeman)
Gene Expression From Gene to Protein	Chapter 14 Questions (due 1/11)	Transcription and Translation (Bozeman)	
Regulation of Gene Expression	Chapter 15 Questions (due 1/18)	Gene Regulation (Bozeman)	
Development, Stem Cells, and Cancer	Chapter 16 Questions (due 1/25)	AP Bio Chapter 16	
Viruses	Chapter 17 Questions (due 2/1)	Viruses (Bozeman)	
Genomes and their Evolution	Chapter 18 Questions (due 2/1)	Evolutionary Development (Crash Course)	

Evolution: Unit 8 (4 weeks)		
Chapter	**Guided Reading**	**Videos**
Descent with Modification	Chapter 19 Questions (due 2/8)	Natural Selection (Crash Course)
Phylogeny and the Tree of Life	Chapter 20 Questions (due 2/15)	Taxonomy: Life's Filing System (Crash Course)

The Evolution of Populations	Chapter 21 Questions (due 2/22)	Population Genetics: When Darwin Met Mendel (Crash Course)
The Origin of Species	Chapter 22 Questions (due 2/22)	Speciation: Of Ligers and Men (Crash Course)
Broad Patterns of Evolution	Chapter 23 Questions (due 3/1)	Evolution: It's a Thing (Crash Course)
Early Life and the Diversification of Prokaryotes	Chapter 24 Questions (due 3/1)	Old and Odd: Archaea, Bacteria, & Protists (Crash Course)

PLANTS: UNIT 9 (2 WEEKS)		
Chapter	**Guided Reading**	**Videos**
Plant Form and Function	Chapters 28-31 Questions (due 3/15)	Plant Control (Bozeman)

HUMANS: UNIT 10 (4 WEEKS)		
Chapter	**Guided Reading**	**Videos**
The Internal Environment of Animals: Organization and Regulation	Chapter 32 Questions (due 3/22)	Positive and Negative Feedback Loops (Bozeman)
		Great Glands: Your Endocrine System (Crash Course)
Animal Nutrition	Chapter 33 Questions (due 3/22)	The Digestive System (Crash Course)
Circulation and Gas Exchange	Chapter 34 Questions (due 3/22)	Circulatory & Respiratory Systems (Crash Course)
The Immune System	Chapter 35 Questions (due 3/29)	Your Immune System: Natural Born Killer (Crash Course)
Reproduction and Development	Chapter 36 Questions (due 4/5)	The Reproductive System (Bozeman)
Neurons, Synapses, and Signaling	Chapter 37 Questions (due 4/12)	The Nervous System (Crash Course)
Nervous and Sensory	Chapter 38 Questions	

Systems	(due 4/12)	

Diversity of Organisms: Unit 11 (3 weeks)		
Chapter	**Guided Reading**	**Videos**
Early Life and the Diversification of Prokaryotes	Chapter 24 Questions (due 4/19)	Old and Odd: Archaea, Bacteria, & Protists (Crash Course)
The Origin and Diversification of Eukaryotes (Protists)	Chapter 25 Questions (due 4/19)	
The Colonization of Land (Fungi)	Chapter 26 Questions (due 4/26)	Fungi: Death Becomes Them (Crash Course)
The Rise of Animal Diversity (Invertebrates and Vertebrates)	Chapter 27 Questions (due 5/3)	Simple Animals (Crash Course)
		Complex Animals (Crash Course)
		Chordates (Crash Course)