

Current Staff		Mrs. Jamie Duff				
Course	8th Grade Life Science	Textbook: McDougal Littell Life Science				
Unit/Length	Unit Objectives/ Big Ideas	Basic Outline/ Structure	Materials/ Text	Content Vocabulary (Mastery, Introductory)	Next Gen	Assessment
Cells 3 Wks	All Living Things are Made of Cells -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	Unicellular vs Multicellular Organisms Cell Theory Introduction to the Microscope	Ch. 1 Ch. 1 Microscopes, Prepared Slides, Pond Water	Unicellular, Multicellular, Cell	MS-LS1-1	-Cell Diagrams -Lab/Write-Up -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2)
Cells 3 Wks	Within Cells, Special Structures are Responsible for Particular Functions -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	Cell Organelles Cells Capture and Release Energy	Ch. 1 Ch. 2, Oil and Water Demonstration, Yeast Respiration Lab, Photosynthesis/Respiration Input Output Lab, Photosynthesis Articles, M&Ms Lab	Organelle , Cell Membrane, Cell Wall, Cytoplasm, Nucleus, Chloroplast, Mitochondria Photosynthesis, Cellular Respiration	MS-LS1-2 MS-LS1-6 MS-LS1-7	-Cell Organelles Game -Cell City Analogy -Word Sort (CCSS.RST.6-8.2) -Photosynthesis and Cellular Respiration Images -Lab/Write-Ups -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.RST.6-8.7) (CCSS.WHST.6-8.2) -Jigsaw

		Growth and Development	Ch. 3, Microscopes, Mitosis Slides	Mitosis	MS-LS1-5 MS-LS3-1 MS-LS3-2	(CCSS.RST.6-8.5) -Ch. 2 Test (CCSS.WHST.6-8.1) -Mitosis Image -Lab/ Write-up -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2) -Ch. 3 Test (CCSS.RST.6-8.4) (CCSS.WHST.6-8.1)
Genetics 4 Wks	Inheritance of Traits -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	Heredity and Genes Punnett Squares	Ch. 4, Punnett Square and Allele Activities, Variations on Human Face	Heredity , Gene, Allele, Phenotype, Genotype, Dominant, Recessive	MS-LS3-1 MS-LS3-2 MS-LS3-2	-Punnett Square and Allele Activities.
Genetics 3 Wks	Variation of Traits -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	DNA Mutations Natural and Artificial Selection	Ch. 5, Watson and Crick Articles (CCSS.RST.6-8.8) Video (CCSS.RST.6-8.9) Ch. 5, Cloning Timeline Activity, Cloning Articles & Videos (CCSS.RST.6-8.9)	DNA Mutation Selective Breeding, Genetic Engineering	MS-LS3-1 MS-LS3-2 MS-LS4-4 MS-LS4-5	-DNA Diagrams and Models -Cloning Position Paper (CCSS.WHST.6-8.1) (CCSS.WHST.6-8.4) (CCSS.WHST.6-8.5) (CCSS.WHST.6-8.6) (CCSS.WHST.6-8.10) -Cloning Discussion Cards

						(CCSS.WHST.6-8.1)
Taxonomy 2 Wks	Classification of Living Things -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	7 Levels of Classification	Ch. 7, INR, Dichotomous Key Activities	Taxonomy , Binomial Nomenclature		-INR (CCSS.RST.6-8.7)
Human Biology 6 Wks	Human Body -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	Organization of the Human Body Circulatory System Digestive System Muscular System Nervous System Respiratory System	Ch. 1 Ch. 19, Interactive Notebook Resources (INR) Ch. 18, INR, Digestive System Simulation Labs Ch. 17, INR Ch. 20, INR	Circulatory System Digestive System Muscular System , Voluntary Muscle, Involuntary Muscle Nervous System , Stimulus Respiratory System	MS-LS1-3 MS-LS1-3 MS-LS1-3 MS-LS1-7 MS-LS1-3 MS-LS1-3 MS-LS1-8 MS-LS1-3	-Organ Systems Poster -Organ Systems Diagrams -Lab/Write-Ups -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2) -Lab/Write-Up

			Ch. 18, INR, Respiratory System Lab			-Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2) -Body Systems Unit Test
			Human Tissue Types Microscope Lab			-Lab/Write-Up -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2)
			Articles & Videos (CCSS.RST.6-8.8)			-INR (CCSS.RST.6-8.7)
Diversity of Organisms 2 Wks	Unicellular Organisms -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	Bacteria Archaea Viruses Protists	Ch. 9, Bacteria Lab, Algae Lab, Videos & Graphic Organizers (CCSS.RST.6-8.8)	Bacteria, Producer, Decomposer, Parasite Archaea Virus, Host Cell	MS-LS1-1	-Lab/Write-Ups -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2) -Bacteria and Virus Images
Diversity of Organisms 3 Wks	Multicellular Organisms -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and	Adaptations	Ch. 10, Animal Adaptations Webquest (CCSS.RST.6-8.1)	Adaptation	MS-LS4-2 MS-LS4-6	-Adaptations Research Project (CCSS.WHST.6-8.4) (CCSS.WHST.6-8.5) (CCSS.WHST.6-8.6) (CCSS.WHST.6-8.7) (CCSS.WHST.6-8.8) (CCSS.WHST.6-8.9) (CCSS.WHST.6-8.10)

	Proficiently (CCSS.RST.6-8.10)	Asexual vs Sexual Reproduction	Ch. 10		MS-LS3-2	
		Plants	Ch. 10, Ch. 11, Plant Parts Microscope Lab, Urban Farming Article, Video (CCSS.WHST.6-8.9)	Autotroph, Producer	MS-LS1-5 MS-LS1-6 MS-LS1-4 MS-LS4-6	-Lab/Write-Up -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2) -Flower Diagram -Urban Farming Position Paper (CCSS.WHST.6-8.1) (CCSS.WHST.6-8.4) (CCSS.WHST.6-8.5) (CCSS.WHST.6-8.6) (CCSS.WHST.6-8.10)
		Animals	Ch. 10	Heterotroph, Consumer, Herbivore, Carnivore, Omnivore	MS-LS1-3 MS-LS1-4 MS-LS1-5 MS-LS2-2 MS-LS4-2 MS-LS4-6	-Plants/Animals Venn Diagram
		Fungi			MS-LS1-1	-Lab/Write-Up

			Ch. 10, Mushroom Dissection Lab, Microscopes			-Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2)
Ecology 6 Wks	Ecosystems -Summarizing (CCSS.RST.6-8.2) -Determining Meaning (CCSS.RST.6-8.4) -Analyzing Structure (CCSS.RST.6-8.5) -Reading Independently and Proficiently (CCSS.RST.6-8.10)	Ecosystems Support Life	Ch. 14, Ch. 15	Ecosystem , Biotic Factors, Abiotic Factors, Population , Habitat, Symbiosis, Mutualism, Commensalism, Parasitism	MS-LS2-1 MS-LS2-2	-Biomes Concept Map -Biomes Map -Ecosystems Research Project (CCSS.WHST.6-8.4) (CCSS.WHST.6-8.5) (CCSS.WHST.6-8.6) (CCSS.WHST.6-8.7) (CCSS.WHST.6-8.8) (CCSS.WHST.6-8.9) (CCSS.WHST.6-8.10) (CCSS.RST.6-8.7)
		Energy Flows Through Ecosystems	Ch. 14	Food Chain, Food Web	MS-LS2-3	-Creating a Food Chain & Food Web Activities
		Ecosystems Change Over Time	Ch. 15		MS-LS2-4 MS-ES3-4	
		Human Impact on Ecosystems	Ch. 16	Natural Resource , Pollution, Conservation	MS-LS2-4 MS-LS2-5 MS-ES3-5	
		Observing Wildlife	National Geographic Bioblitz Videos, Live Streaming Wildlife Cameras on Internet			-Lab/Write-Ups -Following Multistep Procedures (CCSS.RST.6-8.3) (CCSS.WHST.6-8.2)
Life Over Time 3 Wks	Biological Evolution -Summarizing (CCSS.RST.6-8.2)	Populations and Change	Ch. 8	Population, Limiting Factor	MS-LS4-4 MS-LS4-6	-Project

