

## MASCOUTAH COMMUNITY SCHOOL DISTRICT #19

Teacher:

Grade: 7th GRADE

Subject: SCIENCE

Year: 2016-2017

Month	Content	Skills	Assessments	Standards
August	Science Inquiry (2 weeks)	<ul style="list-style-type: none"> <li>● Investigation</li> <li>● Lab Safety, Describing, and Explaining</li> <li>● Analyzing Data, Observing, Inferences, Evidence</li> <li>● Scientific Math, Graphing Independent and Dependent Variables</li> </ul>	<ul style="list-style-type: none"> <li>● Bouncing Ball Lab</li> <li>● Gummy Bear Lab</li> <li>● Quiz</li> </ul>	Review
September	Elements of Life (1 week)  Cells (3 weeks)	<ul style="list-style-type: none"> <li>● Levels of Organization of Life</li> <li>● Elements of Life in Living Organisms</li> <li>● Characteristics of Living and Nonliving Things</li> <li>● Microscope, Cell Theory, Types of Cells</li> <li>● Cellular Structure and Function</li> <li>● Organelles in Plant vs. Animal Cells</li> <li>● DNA</li> <li>● Processes, Osmosis and Diffusion</li> <li>● Carbon Cycles, Photosynthesis and Respiration</li> <li>● Aerobic and Anaerobic Cellular Respiration</li> <li>● Nitrogen Cycle</li> </ul>	<ul style="list-style-type: none"> <li>● Taxonomic Key Lab</li> <li>● Microscope Lab</li> <li>● Microscope Quiz</li> <li>● Cell Flipbook Activity</li> <li>● Cell Analogy Project</li> <li>● Cell Test</li> </ul>	MS-LS1-1 MS-LS1-2 MS-LS1-6 MS-LS1-7 MS-LS2-1 MS-LS2-3 MS-LS2-4
October	Reproduction and Heredity (2 weeks)	<ul style="list-style-type: none"> <li>● Asexual and Sexual Reproduction Mitosis, and Meiosis</li> <li>● Genetics, Chromosomes, Alleles</li> </ul>	<ul style="list-style-type: none"> <li>● Class Survey Lab</li> <li>● Heredity Lab</li> <li>● Heredity Test</li> </ul>	MS-LS3-1 MS-LS3-2 MS-LS4-5

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		<ul style="list-style-type: none"> <li>● Punnett Square</li> <li>● Selective Breeding</li> </ul>		
November	Adaptation (4 weeks)	<ul style="list-style-type: none"> <li>● Adaptations in the Ecosystems</li> <li>● Behavioral and Structural Adaptations</li> <li>● Ability to Survive</li> <li>● Natural Selection</li> <li>● Ability to survive</li> <li>● Environment and Genetic Survival</li> <li>● Fossil Records</li> <li>● Geologic Time Scale</li> </ul>	<ul style="list-style-type: none"> <li>● Spot A Dot Lab</li> <li>● Peppered Moth Research Study</li> <li>● Bird Beak Lab</li> <li>● Common Assessment Test</li> <li>● Geologic Time Scale Poster</li> <li>● Quiz</li> </ul>	MS-LS2-1 MS-LS2-2 MS-LS2-3 MS-LS2-4 MS-LS4-1 MS-LS4-2 MS-LS4-3 MS-LS4-4 MS-LS4-5 MS-LS4-6
December	Microorganisms	<ul style="list-style-type: none"> <li>● Viruses</li> <li>● Bacteria</li> <li>● Vaccinations</li> <li>● Diseases</li> <li>● Fungus</li> <li>● Protists</li> </ul>	<ul style="list-style-type: none"> <li>● Virus Quiz</li> <li>● What Kills Germs Online Lab</li> <li>● Bacteria Quiz</li> <li>● Protozoan Project</li> <li>● Live Protozoan Microscope Lab</li> </ul>	MS-LS1-1 MS-LS1-2
January	Ecology 4 weeks-	<ul style="list-style-type: none"> <li>● The Study of Ecology</li> <li>● Food chains/Food webs</li> <li>● Producers &amp; Consumers</li> <li>● Energy Pyramid</li> </ul>	<ul style="list-style-type: none"> <li>● Owl Pellet Dissection Lab</li> <li>● Quiz</li> </ul>	MS-LS1-6 MS-LS1-7 MS-LS2-1 MS-LS2-2 MS-LS2-3 MS-LS2-4 MS-LS2-5 MS-LS2-2

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				MS-LS2-5
February	Ecology	<ul style="list-style-type: none"> <li>● Biogeography</li> <li>● Biomes</li> <li>● Aquatic Ecosystems</li> </ul>	<ul style="list-style-type: none"> <li>● Seed Dispersal STEM Project Challenge</li> <li>● Biome Research Project</li> <li>● Biome Google Slides Presentation</li> <li>● Quiz</li> <li>● Common Assessment</li> </ul>	MS-LS1-6 MS-LS1-7 MS-LS2-1 MS-LS2-2 MS-LS2-3 MS-LS2-4 MS-LS2-5 MS-LS2-2 MS-LS2-5 MS-ETS1-4 MS-ETS1-3 MS-ETS1-2 MS-ETS1-1
March	Ecology and Anatomy	<ul style="list-style-type: none"> <li>● Organisms in their Environment</li> <li>● Flora and Fauna in Ecosystems</li> <li>● Anatomy - simple to complex</li> </ul> <p>***SPRING STEM PROJECT***            Egg Race &amp; Crash Cars Challenge</p>	<ul style="list-style-type: none"> <li>● Grasshopper Dissection</li> <li>● Grasshopper Pre &amp; Post Test</li> <li>● Crayfish Dissection</li> <li>● Crayfish Pre &amp; Post Test</li> <li>● Perch Dissection</li> <li>● Perch Pre &amp; Post Test</li> <li>● Soaking Up Rays Reptile Lab</li> <li>● Frog Dissection</li> <li>● Frog Pre &amp; Post Test</li> </ul>	MS-ETS1-4 MS-ETS1-3 MS-ETS1-2 MS-ETS1-1

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April	Human Body Systems and Anatomy- 3 weeks	<ul style="list-style-type: none"> <li>● Body System Overview</li> <li>● Skeletal System</li> <li>● Types of Joints</li> <li>● Muscular System</li> <li>● Digestive System</li> <li>● Respiratory System</li> <li>● Circulatory System</li> <li>● Nervous System</li> </ul>	<ul style="list-style-type: none"> <li>● Skeletal System Test</li> <li>● Fetal Pig Dissection</li> <li>● Brain Activities</li> </ul>	MS-LS1-3 MS-LS1-8
May	Plants	<ul style="list-style-type: none"> <li>● Plant Parts and Functions</li> <li>● Leaf Structure and Functions</li> <li>● Flower Parts and Functions</li> <li>● Sexual Reproduction in Plants</li> <li>● Asexual reproduction in plants</li> <li>● Cross-pollination</li> </ul>	<ul style="list-style-type: none"> <li>● Tree/Leaf Field Guide</li> <li>● Scavenger Hunt in Park</li> <li>● Grow plants &amp; record data</li> <li>● Journal</li> </ul>	MS-LS1-4 MS-LS1-5 MS-LS1-6
June				