	5 <sup>th</sup> Grade Science								
UNIT	1	2	3	4	5	6	7	8	
NAME	We are Scientists	Building Blocks of Life	Light	Solar System	Matter and Energy	Simple Machines	Ecosystems	Geology	
LENGTH	mini lessons	4 weeks	4 weeks	4 weeks	3 weeks	1 week	6 weeks	4 weeks	
9 WEEKS	1 <sup>st</sup> – 4th	1st	1st	1 <sup>st</sup> & 2nd	2nd	2nd	2 <sup>nd</sup> & 3rd	3rd	
SLEs	NS.1.5.1 NS.1.5.2 NS.1.5.3a NS.1.5.3b NS.1.5.3c NS.1.5.3d NS.1.5.4a NS.1.5.4b NS.1.5.4c NS.1.5.4d NS.1.5.4f NS.1.5.5 NS.1.5.5 NS.1.5.5 NS.1.5.5	LS.2.5.1 LS.2.5.2 LS.2.5.3 LS.2.5.4a LS.2.5.4b LS.2.5.5 LS.2.5.6 LS.2.5.7 LS.2.5.8 LS.2.5.9 LS.2.5.10 LS.2.5.11	PS.7.5.1a PS.7.5.1b PS.7.5.1c PS.7.5.2 PS.7.5.3 PS.7.5.4 PS.7.5.5 PS.7.5.6	ESS.10.5.1 ESS.10.5.2 ESS.10.5.3 ESS.10.5.4 ESS.10.5.5 ESS.10.5.6	PS.5.5.1 PS.5.5.2 PS.5.5.3 PS.5.5.4 PS.5.5.5a PS.5.5.5b PS.5.5.5.6 PS.5.5.7 PS.5.5.8 PS.5.5.9 PS.5.5.10 PS.6.5.4 PS.6.5.5 PS.6.5.5	PS.6.5.1 PS.6.5.2a PS.6.5.2b PS.6.5.2c PS.6.5.2d PS.6.5.2f PS.6.5.3 PS.6.5.3	LS.4.5.1a LS.4.5.1b LS.4.5.2 LS.4.5.3 LS.4.5.4 LS.4.5.5 LS.4.5.6 LS.4.5.7 LS.4.5.8 LS.4.5.9 LS.4.5.10 LS.4.5.11 LS.4.5.12 LS.4.5.13 LS.4.5.14a LS.4.5.14b LS.4.5.14c LS.4.5.14c LS.4.5.14d LS.4.5.14f LS.4.5.15 LS.4.5.17a LS.4.5.17a LS.4.5.17b LS.4.5.17c LS.4.5.17c LS.4.5.18	ESS.8.5.1 ESS.8.5.2 ESS.8.5.3 ESS.8.5.4 ESS.8.5.5 ESS.8.5.6 ESS.8.5.7a ESS.8.5.7b ESS.8.5.7c ESS.8.5.7c ESS.8.5.10 ESS.8.5.11 ESS.8.5.11 ESS.8.5.12 ESS.8.5.12 ESS.8.5.13 ESS.9.5.1 ESS.9.5.1	
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## **Helena-West Helena School District**

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MATH PRACTICES	5							
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\* Standard is equivalent to NS.13.B.3

UNIT	1	2	3	4	5	6	7	8
NAME	We are Scientists	Building Blocks of Life	Light	Solar System	Matter and Energy	Simple Machines	Ecosystems	Geology
TRANSFERS	Students will be able to independently use their learning to  Follow procedures and use appropriate tools to ensure accuracy and validity.	Students will be able to independently use their learning to  Explain hierarchical relationships between organisms, concepts, and objects.	Students will be able to independently use their learning to  Identify the different ways in which light interacts with matter.	Students will be able to independently use their learning to  Relate the physical characteristics of planetary objects to gravity and its effect on weight.	Students will be able to independently use their learning to  Distinguish between physical and chemical changes based on molecule placement and movement.	Students will be able to independently use their learning to  Apply appropriate simple machines to situations to increase the amount of work done while decreasing the energy expended.	Students will be able to independently use their learning to  Create food webs using different plant and animal populations in an ecosystem while identifying biotic and abiotic factors affecting population growth.	Students will be able to independently use their learning to  Narrate Earth's story through the study of fossil records and geologic time.

VOCABULARY	Observation Accuracy Senses Hypothesis Replication Control Variables Sample Mean Median Mode Range SI units x-axis y-axis Bar graph Double bar graph Conclusion Inquiry Long-term Data Scientific fact Scientific opinion Prediction Theory Hypothesis Law	Cell theory Scientific theory Cell Microscope Microscopic Cell function Animal cell Plant cell Cell membrane Nucleus Cytoplasm Organelle Cell wall Chloroplast Pigments Chlorophyll Photosynthesis Carbon dioxide Water Oxygen Glucose Sunlight (energy) Cellular respiration Mitochondria Cellular biologist	Light Matter Absorption Refraction Reflection Transparent Translucent Opaque Perception Color White light Transmission Scattering Physics Physicist	Physical characteristics Stars Size Color Brightness Magnitude Planets Satellites Asteroids Meteors Comets Shape Density Atmosphere Average distance Orbital path Moons Surface Composition Astronomical distance Mass Weight Metric Kilograms Gravity Constant Astronomy Astronomer	Atoms Matter Physical properties Physical changes States of matter Solid Liquid Gas Plasma Physical properties of matter Molecules Kinetic energy Potential energy Expansion Contraction Chemistry Chemist Physics Physicist Motion	Simple machines Lever Wheel & axle Pulley Incline plane Wedge Screw Invention Discoveries Engineers Physicists	Population Community Ecosystem Biosphere Terrestrial Aquatic Energy Energy pyramid Transfer Producer Consumer Decomposer Habitat Categorize Food web Food chain Stress Overgrazing Overpopulation Natural disaster Native Non-native Species Urban Human Limiting factors Carrying capacity Space Nitrogen Nitrogen cycle Herbivore Carnivore Omnivore Carnivore Omnivore Carbon dioxide Oxygen Carbon dioxide	Elements Minerals Silicon Oxygen Iron Sodium Chlorine Calcium Carbon Hydrogen Aluminum Crystal Inorganic Particle Properties Moh's Hardness Scale Luster Streak Acid test Fluorescence Characteristics Sedimentary Metamorphic Igneous Magma Lava Geology Geologist Paleontology Paleontology Paleontology Paleontologist Weathering Erosion Rock cycle Humus Top soil Decay Nutrients Heat Pressure Deposition Process Continuous Fossil Continental drift Rock layers Mold Cast Imprint Trace Petrified Preserved Carbon film Extinct Environment
Spring 2015								

"Make a Mountain!" model the nits to movement of wth" one of Earth's places with erent moist sand, bers of wax paper, s in cups and shoebox

"A Model World" create and use a model of Earth to describe the layers which make up Earth's structure

"Picking a Pattern" find the locations of earthquakes and volcanoes, mark them on a blank world map; draw conclusions about patterns seen and predict the relationship between the planet's plates and the places where most volcanoes and earthquakes occur

## **Helena-West Helena School District**