

Mansfield Independent School District
Grade Five, Scope of Instruction

Nature of Science	Life Science	Physical Science	Earth Science
<p><u>Safety:</u></p> <ul style="list-style-type: none"> • Safety symbols: recognize and follow • Safety equipment (how to use) • Safe disposal of materials • Safety drills • Follow oral and written directions • Selecting and using proper tools <p><u>Conservation:</u></p> <ul style="list-style-type: none"> • Recycling • Disposal • Saving earth resources <p><u>Scientific Process:</u></p> <ul style="list-style-type: none"> • Plan and implement investigations using the process <ul style="list-style-type: none"> ○ Formulate question ○ Develop hypothesis ○ Select equipment ○ Collect data using tools ○ Interpret and analyze data ○ Compare and contrast variables ○ Evaluate or critique results ○ Communicate conclusions • Construct data charts <p><u>Measurement:</u></p> <ul style="list-style-type: none"> • Accuracy in measuring • Recording measurements using a bubble grid • Units in customary and metric system 	<p><u>Adaptations/Life Cycles</u></p> <ul style="list-style-type: none"> • Compare • Predict • Analyze • Survival <p><u>Traits</u></p> <ul style="list-style-type: none"> • Inherited • Learned • Offspring 	<p><u>Properties of Matter:</u></p> <p>States of matter (solids, liquids, gases)</p> <ul style="list-style-type: none"> • Behavior of particles • Mixtures, solutions • Boiling and freezing points • Adding variables (dissolving) • Physical and Chemical properties of matter: ability to conduct and insulate <p><u>Energy: Differentiate forms</u></p> <ul style="list-style-type: none"> • Reflected and refracted light in telescopes, eyeglasses and glass • Electricity in a circuit • Magnetic effects • Vibration and sound 	<p><u>Changes in Cycles/Changes over Time</u></p> <ul style="list-style-type: none"> • Water • Carbon • Nitrogen • Lunar changes • Tides • Seasonal • Wind • Weathering • Erosion • Rock sequences • Tree growth • Deposition • Flow of water <p><u>Resources</u></p> <ul style="list-style-type: none"> • Nonrenewable - Fossil fuels • Renewable - trees • Inexhaustible - wind, solar, geothermal, water <p><u>Solar System</u></p> <ul style="list-style-type: none"> • Compare: Physical characteristics of earth, moon