

Mansfield Independent School District
Grade Four, Scope of Instruction

Nature of Science	Life Science	Physical Science	Earth
<p><u>Safety:</u></p> <ul style="list-style-type: none"> • Safety symbols • 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 • Organize and record data • Make observations, predict • Hypothesize • Describe variables both dependent and independent • Analyze results • Share information <p><u>Measurement:</u></p> <ul style="list-style-type: none"> • Accuracy in measuring • Units in metric system 	<p><u>Life Cycles</u></p> <ul style="list-style-type: none"> • Metamorphosis <p><u>Adaptations & Characteristics</u></p> <ul style="list-style-type: none"> • To survive and reproduce • Compare <p><u>Traits</u></p> <ul style="list-style-type: none"> • Inherited and learned <p><u>Systems</u></p> <ul style="list-style-type: none"> • Role of organisms in a system <p><u>Compare past and present species</u></p> <p><u>Change requiring time</u></p> <ul style="list-style-type: none"> * Plant growth 	<p><u>Properties of Matter:</u></p> <ul style="list-style-type: none"> • Changes in states of matter (solids, liquids, gases) <ul style="list-style-type: none"> ○ Changes in matter with reaction to addition and reduction of heat ○ Conduction ○ Density ○ Buoyancy <p><u>Systems</u></p> <ul style="list-style-type: none"> • Roles of parts • Effect of removal of parts <p><u>Characteristics remain constant</u></p> <ul style="list-style-type: none"> • Rotation • Translation • Reflection • Symmetry 	<ul style="list-style-type: none"> • Patterns of weather change • Properties of soil • Effect of oceans on land <p><u>Patterns of Change</u></p> <ul style="list-style-type: none"> • Objects in the sky <p><u>Long Term Change</u></p> <ul style="list-style-type: none"> • Erosion • Dissolving • Weathering • Flow <p><u>Fossils</u></p> <ul style="list-style-type: none"> • What happened before <p><u>Sun</u></p> <ul style="list-style-type: none"> • Major source of energy • Creation of wind • Water Cycle