

Middle School Science Four-Year Plan (16-17 to 19-20)

| | 6th Grade | 7th Grade | 8th Grade |
|---------------------------|--|--|--|
| Year 2 (17-18) | <p><u>Nature of Science:</u></p> <ul style="list-style-type: none"> • Safety • Sci.Method • Measurement <p><u>Chemistry:</u></p> <ul style="list-style-type: none"> • Molecules • Chemical reactions • Synthetic materials • States of matter • Conservation of mass • Thermal energy <p><u>Life Science:</u></p> <ul style="list-style-type: none"> • Photosynthesis • Ecosystems/population • Ecosystems/food <p><u>Earth:</u></p> <ul style="list-style-type: none"> • Cycling of earth material • Earth's changing surface • Plate motions • Geoscience process <p><u>Energy:</u></p> <ul style="list-style-type: none"> • Types of energy • Energy conversion | <p><u>Life Science:</u></p> <p>Cells</p> <ul style="list-style-type: none"> • Unicellular/Multicellular • Cell Parts & Functions <p>Body Systems</p> <ul style="list-style-type: none"> • System Interactions • System Functions • Sensory receptors in the brain <p>Plants:</p> <ul style="list-style-type: none"> • Photosynthesis • Plant Structures = successful reproduction (adaptation) <p>Animal Behavior:</p> <ul style="list-style-type: none"> • Animal Behavior = successful reproduction (adaptations) <p>Genetics:</p> <ul style="list-style-type: none"> • Genes • Variations between Asexual vs sexual reproduction • Inheritance of traits (punnett squares) <p>(Health Standard-if time allows)</p> <p>Immunology:</p> <ul style="list-style-type: none"> • Microbes <p>Ecosystems:</p> <ul style="list-style-type: none"> • Natural selection and adaptation <p><u>Earth:</u></p> <p>Weather Climate (repeat/expand from year 1)</p> <ul style="list-style-type: none"> • Water cycle • Air masses • Heating and cooling patterns • Global warming | <p><u>Chemistry</u> (Both 6th and 8th teaching)</p> <ul style="list-style-type: none"> • Molecules • Chemical reactions (Performance Assessment) • States of matter • Conservation of mass <p><u>Geology</u> (Both 6th and 8th teaching)</p> <ul style="list-style-type: none"> • Rock Cycle • Earth's Layers and Heat Transfer • Plate Motion <p><u>Astronomy</u></p> <ul style="list-style-type: none"> • Earth/Moon/Sun (keep) • Gravity and motion(keep) • Solar system scale (keep) |