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| **Unit** | **Concepts**  ***(1 sessions = 45 minutes)*** | **APPROXIMATE Duration** | **Special Projects/Trips** |
| **Ecosystems** | Energy in Ecosystems *(11 sessions)* | Sept. 2 weeks | Trout in the Classroom  (ongoing until May) |
| **Ecosystems** | -Biotic and Abiotic  Factors *(11 sessions)* | Sept. 2 weeks | -Favorite organism Abio/Bio factors Project |
| **Population and Communities** | -Relationships among  Organisms *(12 sessions)* | Oct. 2 weeks |  |
| **Population and Communities** | -Populations *(8 sessions)* | Oct. 2 weeks | -Foxes and Rabbits Populations game and graph (S.T.E.M.) |
| **Our Solar System and Beyond** | -Formation of our Solar  System *(8 sessions)* | Nov. 3 weeks | -Planet Presentation Project |
| **Our Solar System and Beyond** | -The Sun as the origin of  other forms of energy *(15 sessions)* | Dec. 3 weeks | -Rube Goldberg Energy Transformation mini project. |
| **Our Solar System and Beyond** | -Types of Galaxies *(8 sessions)* | Jan. 3 weeks | -Galaxy Identification Poster Project |
| **The Earth, Sun, and Moon System** | -Tides | Feb. 1.5 week | -Analysis of Local Tide Tables Project and graph (S.T.E.M.) |
| -Phases *(7 sessions)*  -Eclipses | Feb. 2 weeks | -Modeling Moon Phases and Eclipses |
| *-*Rotation orbits and the Seasons *(8 sessions)* | Feb/March 1.5 | -Modeling seasons |

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| **Earth’s Structure** | -Development of plate  tectonic theory *(9 sessions)* | March 2 weeks |  |
| -Plate tectonics *(11 sessions)* | March 2 weeks |  |
| -Rock Cycle | April 2 weeks | -Rock Cycle Poster/Google Slides  -Rock Identification Lab |
| **Earth’s Systems** | -Energy Transfer and Water Cycle | May 2 weeks | -Trout Stocking Trip  -Model Water Cycle Project (S.T.E.M.) |
|  | -Meteorology | May 2 weeks | -Predicting the Weather Project  -Playing the role of a Meteorologist (S.T.E.M.) |
|  | -Extreme weather | June 2 weeks | -Camp Bernie Field Trip  -Playing the role of a Meteorologist (S.T.E.M.) |

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