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| Unit | Concepts  *(1 sessions = 45 minutes)* | APPROXIMATE Duration | Projects and Trips |
| **(Life Sci.)**  **Evolution** | -**Evidence for Evolution** (7 sessions) | Sept. 2.5 weeks |  |
| -**Darwin & Natural Selection** (13 sessions using 5E model) | Sept. 2 weeks |  |
| -**Adaptations** (6 sessions) | Oct. 2 weeks | -Researching an Organism’s Adaptation Project |
| -**Change Over Time & the Fossil Record** (13 sessions) | Oct.-Nov. 3 weeks | Field Trip to the Museum of Natural History  -Geologic Timeline project |
| **(Earth & Space Science)**  **Human Impact on Earth Systems** | **-Natural Resources** | Nov. 1 week | -Natural Resources in America Poster project (S.T.E.M.) |
| **-Human Impact** | Nov. 1 week  (not published) |  |
| **-Anthropogenic Changes** | Nov. 2 weeks |  |
| **-Renewable and Nonrenewable resources** | Dec. 3 weeks | -Horizon Educational *Renewable Resources Lab Kit (S.T.E.M.)* |
| **-Human population growth** | Jan. 2 weeks |  |
| **-Over exploitation of resources** | Jan. 1 week  (not published) |  |
| **-Pollution** | Jan. 1 week  (not published |  |
| **(Phys. Sci.)**  **Technology & Design** | -**Transportation Systems** (13 sessions) | Feb. 2 weeks | -Creating a transportation model for a fictitious city (S.T.E.M.) |
| -**Communication Systems** (9 sessions) | Feb. 2 weeks | -Communication Challenge project (S.T.E.M.) |
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| **(Phys. Sci.)**  **Energy & Waves** | -**Transmission & Absorption** (8 sessions) | March 3 weeks | -Radio wave communication activity  -Solar Oven Project (S.T.E.M.) |
| -**Beyond Visibility** (7 sessions) | March 1.5 weeks |  |
| -**Refraction/Reflection** (8 sessions) | April 2 weeks | -Building a Periscope Project (S.T.E.M.) |
| **-Characteristics & properties of Waves** (7 sessions) | April-May 2 weeks | -Tower Project (S.T.E.M.) |
| **(Phys. Sci.)**  **Electricity & Magnetism** | -**Static Charges** (10 Sessions) | May-June 2 weeks | -Exploring static electricity with various manipulatives |
| -**Electricity & Magnetism Relationship** (10 Sessions) | June 1 weeks | -Lighting Device Project |