<table>
<thead>
<tr>
<th>August/January</th>
<th>September/February</th>
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| - Composition and formation of Earth systems and the solar system  
  - Origins of the solar system  
  - Development and composition of Earth’s early systems (geosphere, hydrosphere and atmosphere)  
  - Earth’s layers  
  - Plate Tectonics  
  - Mechanisms that cause plate tectonics  
  - Types of boundaries  
  - Transformations processes of different rock types  
  - Theory of Plate tectonics  
  - Landscape change  
  - actions of water, wind, ice, and gravity  
  - Physical and chemical weathering |  
| October/March | November/April |
| - Reconstructing Earth’s Past  
  - Rocks and fossils  
  - Absolute and relative age  
  - Analyzing geologic cross sections  
  - interpreting major events in Earth’s history (mass extinction, major climatic change, and tectonic events)  
  - Weather and Climate  
  - air pressure, global wind patterns, and ocean currents  
  - predict weather patterns  
  - Explain how temperature and precipitation produce the pattern of climate regions (zones) on Earth  
  - Extreme weather events |  
| December/May | Ongoing Concepts: |
| - Discover how life on Earth responds to and shapes Earth’s systems  
  - extinction, migration, and/or adaptation.  
  - Earth’s land and water resources  
  - changes in global climate  
  - Tests  
  - Projects  
  - Labs/Activities |