

Grade Level Indicator	Benchmark/s	Assessments/Activities
Earth and Space Sciences		
<u>Earth Systems</u>		
<p>1. Explain the biogeochemical cycles which move materials between the lithosphere (land), hydrosphere (water) and atmosphere (air).</p>	<p>C. Describe interactions of matter and energy throughout the lithosphere, hydrosphere and atmosphere (e.g., water cycle, weather and pollution).</p>	<p>PALS Performance Task: Water-holding Capacity of Earth Materials</p> <p>PALS Performance Task: Puddles and Soil</p> <p>PALS Performance Task: Peat Pots</p> <p>Construct a mini-poster that shows the steps of the carbon cycle and nitrogen cycle. Conduct research that will demonstrate the various periods of time necessary for various items to decompose. Using a water cycle demonstrate kit have the students model the steps in the transfer of energy with respect to evaporation, transpiration, condensation and precipitation.</p> <p>Given a picture of the various cycles, describe the steps in each process. In groups of 3 design posters showing the biogeochemical cycles. Each person will use the posters to write there own description of each cycle. Take one poster and introduce a problem like smog, smoke and tell how it would effect the quality of the environment in short and long terms and why. Make a poster indicating the problems of pollution in the air and water in your area.</p>