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| <b>Title:</b>          | <b>Rock Cycle</b>   |
| Grade Levels:          | 3 <sup>rd</sup> -4 <sup>th</sup> Grade  |
| Curriculum Areas:      | ☞ Science   |
| Measurable Objectives: | <ul style="list-style-type: none"> <li>☞ TSW compare the properties of rocks and relate these properties to their use.</li> <li>☞ TSW describe and group rocks on the basis of their characteristics.</li> </ul>  |
| LA Content Standards:  | <ul style="list-style-type: none"> <li>☞ {SCI.4.55} Recognize that sedimentary rocks are composed of particles that result from weathering and erosion (e.g., sandstones, conglomerates)</li> <li>☞ {SCI.3.45} Recognize and describe that rock is composed of different combinations of minerals</li> <li>☞ {SCI.3.50} Compare and group common rocks according to their characteristics (i.e., igneous, metamorphic, sedimentary)</li> <li>☞ {SCI.4.62} Classify rocks and minerals according to texture, color, luster, hardness, and effervescence</li> </ul> |
| Technology Standards:  | <ul style="list-style-type: none"> <li>☞ {TEC.K-4.J} Use technology resources to assist in problem-solving, self-directed learning, and extended learning activities.</li> <li>☞ {TEC.K-4.B} Use accurate and developmentally appropriate terminology (e.g., cursor, software, hardware, pull down menu, window, disk drive, hard drive, CD-ROM, laser disc) when referring to technology.</li> </ul>   |
| Technology Connection: | <ul style="list-style-type: none"> <li>☞ Internet Resources</li> <li>☞ Multimedia Presentation Projector</li> <li>☞ PowerPoint Presentations</li> <li>☞ Brain Pop Video "Rock Cycle"</li> <li>☞ PowerPoint Presentation "Rocks"</li> <li>☞ BBC schools Internet activity "Rocks and Soil"<br/><a href="http://www.bbc.co.uk/schools/scienceclips/ages/7_8/rocks_soils.shtml">http://www.bbc.co.uk/schools/scienceclips/ages/7_8/rocks_soils.shtml</a></li> </ul>  |
| Procedures:            | ☞ <b>Modeling:</b> TTW show students a PowerPoint Presentation on the different types of rocks.   |

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|                 | <ul style="list-style-type: none"> <li> <b>Guided Practice:</b> TSW discuss where different types of rocks can be found on earth's surface and how different rocks are created. TSW watch the Brain Pop Video on the "Rock Cycle." TSW will then take the quiz as a class.</li> <li> <b>Independent Practice:</b> TSW go to the BBC Schools link "Rocks and Soil" <a href="http://www.bbc.co.uk/schools/scienceclips/ages/7_8/rocks_soils.shtml">http://www.bbc.co.uk/schools/scienceclips/ages/7_8/rocks_soils.shtml</a>. TSW compare the properties of rocks and group rocks on the basis of their properties. TSW complete a quiz on the activity. When students make an 80% or higher they may visit the early finisher rock sites listed on their teacher's webpage.</li> <li> <b>Review:</b> TSW share the different uses of rocks from the online activity. TSW describe the rock cycle and the three types of rocks.</li> <li> <b>Closure:</b> TSW give example of rocks they encounter in their lives and describe what type of rock they are.</li> </ul> |
| Materials:      | <ul style="list-style-type: none"> <li> Presentation Station</li> <li> Power Point</li> <li> Lab Computers</li> <li> Internet</li> <li> Brain Pop Video "Rock Cycle"</li> <li> PowerPoint Presentation "Rocks"</li> <li> BBC schools Internet activity "Rocks and Soil" <a href="http://www.bbc.co.uk/schools/scienceclips/ages/7_8/rocks_soils.shtml">http://www.bbc.co.uk/schools/scienceclips/ages/7_8/rocks_soils.shtml</a></li> </ul>   |
| Assessment:     | <ul style="list-style-type: none"> <li> Guided Practice</li> <li> Individual Practice</li> <li> Oral Responses</li> <li> Teacher Observation</li> </ul>  |
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