

## Technology Competencies 2008-2009

### Grade 3/Science

#### ISTE Standards

1. Creativity and Innovation
2. Communication and Collaboration
3. Research and Information Fluency
4. Critical Thinking, Problem Solving and Decision Making
5. Digital Citizenship
6. Technology Operations and Concepts

<i>AKS/Science/3</i>	<i>ISTE Standards</i>	<i>Suggested Activity</i>
investigate the habitats of different organisms and the dependence of organisms on their habitat (GPS, ITBS) (3SC_D2006-12)	<ol style="list-style-type: none"> <li>1. Creativity and Innovation</li> <li>2. Communication and Collaboration</li> <li>3. Research and Information Fluency</li> <li>4. Critical Thinking, Problem Solving, and Decision Making</li> <li>5. Digital Citizenship</li> <li>6. Technology Operations and Concepts</li> </ol>	<p>Work with your LSTC to make the document available to all student workstations in a computer lab. After viewing the PowerPoint in classroom or lab have students complete the Kidspiration template below by dragging animals to their correct habitat AND/OR use the Kid Pix template below, where students use the key to color the habitat regions of Georgia.</p> <p><i>(PowerPoint template: 3SC_Georgia_Habitats.ppt)</i>  <i>(Kidspiration template: 3SC_Habitat_Regions_of_Georgia.kia)</i>  <i>(Kid Pix template: 3SC_Regions_of_Ga.kpx)</i></p>
explain the effects of pollution and humans on the environment (GPS, ITBS) (3SC_D2006-13)	<ol style="list-style-type: none"> <li>1. Creativity and Innovation</li> <li>2. Communication and Collaboration</li> <li>3. Research and Information Fluency</li> <li>4. Critical Thinking, Problem Solving, and Decision Making</li> <li>5. Digital Citizenship</li> <li>6. Technology Operations and Concepts</li> </ol>	<p>Work with your LSTC to make the document available to all student workstations in a computer lab.</p> <p>Have students watch <b><i>Taking Care of Our Earth</i></b> video in classroom or lab. Afterwards students will use knowledge gained to design a bumper sticker using the Kid Pix template below.</p> <p><i>(United Streaming Video: "Taking Care of Our Earth")</i>  <i>(Kid Pix template: 3SC_Pollution_Bumper_Sticker.kpx)</i></p>
investigate the physical attributes of rocks and soils (GPS, ITBS) (3SC_B2006-8)	<ol style="list-style-type: none"> <li>4. Critical Thinking, Problem Solving, and Decision Making</li> <li>5. Digital Citizenship</li> <li>6. Technology Operations and Concepts</li> </ol>	<p>Work with your LSTC to make the document available to all student workstations in a computer lab.</p> <p>Using the Kidspiration template below the students will complete a Venn diagram comparing rocks and minerals.</p> <p>Using the Publisher template below students will type what each Rock Saying means.</p> <p><i>(Kidspiration template: 3SC_Rocks_and_Minerals.kia)</i>  <i>(Publisher template: 3SC_Rock_Sayings.pub)</i></p>

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<p>investigate fossils as evidence of organisms that lived long ago (GPS, ITBS) (3SC_B2006-9)</p>	<ol style="list-style-type: none"> <li>3. Research and Information Fluency</li> <li>4. Critical Thinking, Problem Solving, and Decision Making</li> <li>5. Digital Citizenship</li> <li>6. Technology Operations and Concepts</li> </ol>	<p>Work with your LSTC to make the document available to all student workstations in a computer lab.</p> <p>Students will use website <a href="http://www.statefossils.com">http://www.statefossils.com</a> and complete the Publisher template below on Georgia's State Fossil.</p> <p><i>(Publisher template: 3SC_Fossils.pub)</i></p>
<p>explain how heat is produced and the effects of heating and cooling (GPS, ITBS) (3SC_C2006-10)</p>	<ol style="list-style-type: none"> <li>1. Creativity and Innovation</li> <li>2. Communication and Collaboration</li> <li>3. Research and Information Fluency</li> <li>4. Critical Thinking, Problem Solving, and Decision Making</li> <li>5. Digital Citizenship</li> <li>6. Technology Operations and Concepts</li> </ol>	<p>After Heat unit is completed review in the classroom or lab using the website: <a href="http://curriculum.calstatela.edu/courses/builders/lessons/less/les3/heat.html">http://curriculum.calstatela.edu/courses/builders/lessons/less/les3/heat.html</a></p> <p>Have students use the Kid Pix template below to illustrate Conduction, Convection OR Radiation.</p> <p><i>(Kid Pix template: 3SC_Heat.kpx)</i></p>
<p>investigate magnets and their effect on common objects and other magnets (GPS, ITBS) (3SC_C2006-11)</p>	<ol style="list-style-type: none"> <li>1. Creativity and Innovation</li> <li>2. Communication and Collaboration</li> <li>3. Research and Information Fluency</li> <li>4. Critical Thinking, Problem Solving, and Decision Making</li> <li>5. Digital Citizenship</li> <li>6. Technology Operations and Concepts</li> </ol>	<p>Have student access web site to review magnetic forces: <a href="http://www.engineeringinteract.org/resources/parkworldplot/flash/concepts/magneticforces.htm">http://www.engineeringinteract.org/resources/parkworldplot/flash/concepts/magneticforces.htm</a></p> <p>After reviewing using the website have students complete the template below by dragging magnetic and nonmagnetic objects in the correct boxes.</p> <p><i>(Kid Pix template: 3SC_Non_Magnets.kia)</i></p>