

Technology Competencies 2008-2009

Grade 2/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/SC/2</i>	<i>ISTE Standards</i>	<i>Suggested Activity</i>
describe the universe as including the moon, sun, other stars and planets (GPS) (2SC_B2007-7)	<ol style="list-style-type: none"> 1. Creativity and Innovation 4. Critical Thinking, Problem Solving, and Decision Making. 5. Digital Citizenship 6. Technology Operations and Concepts. 	<p>Use the overhead projector or lab time to access the following websites to increase student awareness of astronomy.</p> <p>http://www.eduplace.com/kids/hmsc/2/d/cricket/unit_2d.html</p> <p>Access this web site so that students can read for information utilizing Cricket Connections – Chapter 9</p> <p>http://www.eduplace.com/kids/hmsc/2/d/unit.html</p> <p>Students can complete simulations, word games, crossword puzzles, and word finds to investigate attributes and patterns that can be found in the solar system. Work with your LSTC to make the document available to all student workstations in a computer lab. Use Kidspiration template below to help students create solar system charts describing the universe including the moon, sun, and other planets.</p> <p><i>(Kidspiration template: 2SC_Planets.kid)</i></p>
investigate the position of the sun and moon to show patterns throughout the year (GPS) (2SC_B2007-8)	<ol style="list-style-type: none"> 5. Digital Citizenship 6. Technology Operations and Concepts. 	<p>Use the overhead projector or lab time to learn about seasonal patterns in Miami and Boston.</p> <p>http://www.eduplace.com/kids/hmsc/2/d/unit.html</p> <p>click “Discover Simulations”</p>

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<p>observe and record changes in our surroundings and infer the causes of those changes (GPS) (2SC_B2007-9)</p>	<ol style="list-style-type: none"> 1. Creativity and Innovation 4. Critical Thinking, Problem Solving, and Decision Making. 5. Digital Citizenship 6. Technology Operations and Concepts. 	<p>Use the overhead projection or lab time to access the following websites to increase students' knowledge and experience with changes in their surroundings and effects that occur caused by weather, plants, animals and/or people. http://www.eduplace.com/kids/hmsc/2/d/cricket/unit_2d.html Students read to find information in Chapter 8: Deadly Storms and Forest in Winter</p> <p>Work with your LSTC to make the document available to all student workstations in a computer lab. Use Kidspiration template below to help students create a graphic organizer identifying causes of effects of tornadoes in an area.</p> <p><i>(Kidspiration template: 2SC_Tornadoes..kid)</i></p> <p>Work with your LSTC to make the document available to all student workstations in a computer lab. Use Kidspiration template below to help students create a graphic organizer identifying effects that occur as a result of weather changes.</p> <p><i>(Kidspiration template: 2SC_Weather_Changes.kid)</i></p>

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<i>AKS/SC/2</i>	<i>ISTE Standards</i>	<i>Suggested Activity</i>
<p>investigate the properties of matter and changes that occur in objects (GPS) (2SC_C2007-10)</p>	<ol style="list-style-type: none"> 1. Creativity and Innovation 4. Critical Thinking, Problem Solving, and Decision Making. 5. Digital Citizenship 6. Technology Operations and Concepts. 	<p>Use an overhead projector or class lab time to access this website(s) to investigate the properties of matter. (Click on eReview) http://www.mhschool.com/science/2008/student/na/grade2/g2_ch9.html</p> <p>Students listen and read along with the Lesson 1 review on matter and then complete concentration game online.</p> <p>Work with your LSTC to make the documents below available to all student workstations in a computer lab. Use Kidspiration templates below to help students create a graphic organizer identifying objects that are solids, liquids, and gases.</p> <p><i>(Kidspiration template: 2SC_Solids_Liquids_Gases.kid)</i> <i>(Kidspiration template: 2SC_Solids_Liquids_Gases2.kid)</i></p> <p>Use an overhead projector or class lab time to visit this website where students can compare and contrast different properties of matter. http://www.mhschool.com/science/2008/student/na/grade2/g2_ch9.html Students complete activities for 'Lesson 2 and Lesson 3' on the different properties of matter. Online activities include oral reviews, concentration games, and an online activity on measuring solids.</p> <p>Work with your LSTC to make the document available to all student workstations in a computer lab. Use Kidspiration template below to help students create a graphic organizer identifying objects that will float or sink.</p> <p><i>(Kidspiration template: 2SC_Sink_Float.kid)</i></p>

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<i>AKS/SC/2</i>	<i>ISTE Standards</i>	<i>Suggested Activity</i>
identify sources of energy and how energy is used (GPS) (2SC_C2007-11)	<ol style="list-style-type: none"> 1. Creativity and Innovation 4. Critical Thinking, Problem Solving, and Decision Making. 5. Digital Citizenship 6. Technology Operations and Concepts. 	<p>Students can use the outlines, main headings, and images on these pages to gather facts about different energy sources and how energy is used. http://www.eia.doe.gov/kids/energyfacts/index.html</p> <p>Students complete an energy ‘Sudoku’ challenge online (activity may also be printed) identifying various sources of energy. http://www.eia.doe.gov/kids/energy_fungames/wordgames/energy_sudoku.html</p> <p>Students can complete a variety of energy puzzles based on skill level and interest. http://www.eia.doe.gov/kids/energy_fungames/wordgames/words.html</p>
demonstrate changes in speed and direction using pushes and pulls (GPS) (2SC_C2007-12)	<ol style="list-style-type: none"> 1. Creativity and Innovation 4. Critical Thinking, Problem Solving, and Decision Making. 5. Digital Citizenship 6. Technology Operations and Concepts. 	<p>Use an overhead projector or class lab time to access the following website to help with student understanding of pushing and pulling an object. http://www.mhschool.com/mmh_games/content/mac_sci/g2/u6/c11/l2/conc_game/index.html</p> <p>Students can play concentration game online to review terms.</p> <p>Use an overhead projector or class lab time to access the following website to help with student understanding of speed and force on an object. http://www.mhschool.com/science/2008/student/na/grade2/g2_ch11.html</p> <p>Students can scroll down and complete ‘Lesson 2 – Force’ Activities culminating with movies and an online review game. Use an overhead projector or class lab time to access the following website(s) to help with student understanding of force and motion on external objects. http://www.mhschool.com/mmh_games/content/mac_sci/g2/u6/c11/l1/conc_game/index.html</p> <p>Student can play a concentration game about force and motion http://www.mhschool.com/science/2008/student/na/grade2/g2_ch11_ls1_ereview.html</p> <p>Students can listen and read along while reviewing terms and position and motion and then take a quiz on that information.</p>

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<i>AKS/SC/2</i>	<i>ISTE Standards</i>	<i>Suggested Activity</i>
<p>investigate the life cycles of different organisms to understand the diversity of life (GPS) (2SC_D2007-13)</p>	<ol style="list-style-type: none"> 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 	<p>After discussing life cycles of different organisms and the diversity of life, use the overhead projector or lab time to access the following websites for further practice and exploration about the life cycle of common animals. (2SC_D2007-13a)</p> <p>http://www.fossweb.com/modulesK-2/AnimalsTwobyTwo/index.html</p> <p>Click on 'Find the Parent' activity.</p> <p>http://www.harcourtschool.com/menus/science/grade2_nl.html</p> <p>Chapter 2: 'Live Cycle of a Frog'.</p> <p>http://www.eduplace.com/kids/hmsc/2/a/ewordgames/unit_2a.html</p> <p>Students can choose from 'Plants are Living Things', 'Animals are Living Things' and 'Animal Life Cycles'.</p> <p>After discussing seasonal changes and how a tree changes throughout the school year, use the overhead projector or lab time to access the following websites for further practice and exploration about how trees change with the seasons. (2SC_D2007-13b)</p> <p>http://www.bbc.co.uk/scotland/education/www/scottishwoodlands/flash/index.shtml</p> <p>Once site loads students can learn about all aspects the tree or click on the 'When' feature to examine seasonal changes.</p> <p>http://www.urbanext.uiuc.edu/trees1/index.html</p> <p>Students can listen to Pierre talk about trees, their properties, how they grow, their parts, and how they change over the seasons of the year.</p> <p>After discussing the life cycle of various plants use the overhead projector or lab time to access the following websites for further practice and exploration about the life cycle of plant from seed to a full grown plant over a period of time. (2SC_D2007-13c)</p> <p>http://www.fossweb.com/modulesK-2/NewPlants/index.html</p> <p>Click on 'Watch it Grow' activity.</p>

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<p>(con't)</p> <p>investigate the life cycles of different organisms to understand the diversity of life (GPS) (2SC_D2007-13)</p>		<p>http://www.hhmi.org/coolscience/vegquiz/index.html Make a salad by identifying different plant parts Work with your LSTC to make the document below is available to all student workstations in a computer lab and use the Kidspiration template below to help students create a graphic organizer describing the life cycle of a plant.</p> <p><i>(Kidspiration template: 2SC_Plant_Cycle.kid)</i></p> <p>Visit this website to find out what plants need to grow. (2SC_D2007-13d) http://www.urbanext.uiuc.edu/gpe/case1/c1facts3a.html</p> <p>On this web site, students work online with heat and water to make a plant grow fully. http://www.bbc.co.uk/schools/ks2bitesize/science/activities/plants_grow.shtml</p> <p>Visit this website with students in the lab to learn about different fungi, where they grow, how they affect us, and other fun facts. (2SC_D2007-13e) http://www.herbarium.usu.edu/fungi/funfacts/factindx.htm</p>