

Technology Competencies 2008-2009

Grade 2/Math

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/MA/2</i>	<i>ISTE Standards</i>	<i>Suggested Activity</i>
<p>model, identify, label and compare fractions (thirds, sixths, eighths, tenths) as a representation of equal parts of a whole or a set (GPS) (2MA_B2007-35)</p>	<ol style="list-style-type: none"> 2. Communication and Collaboration 4. Critical Thinking, Problem Solving, and Decision Making 5. Digital Citizenship 6. Technology Operations and Concepts 	<p>Work with your LSTC to make the website(s) below available to all student workstations in a computer lab or on a classroom projection device.</p> <p>After completing a lesson on fractions, students will practice their understanding of eights using AAA math. They can review the lesson online; complete the practice activities and then play “Countdown”, “Give Me Time”, and “Twenty Questions”.</p> <p>http://www.aaaknow.com/g24b_ex1.htm (click the “Play” button to access “Countdown”, “Give Me Time” and “Twenty Questions”)</p> <p>(Students can also use the AAA math site to practice other math skills online).</p>
<p>tell time to the nearest five minutes and identify relationships of time such as the number of minutes in an hour and hours in a day (GPS, ITBS) (2MA_D2007-47)</p>	<ol style="list-style-type: none"> 2. Communication and Collaboration 4. Critical Thinking, Problem Solving, and Decision Making 5. Digital Citizenship 6. Technology Operations and Concepts 	<p>Work with your LSTC to make the website(s) below available to all student workstations in a computer lab or on a classroom projection device.</p> <p>After completing a lesson on telling time students will practice their skills with the following Harcourt website.</p> <p>http://www.harcourtschool.com/activity/telling_time_gr3/</p>

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collect and organize data by creating simple tables, picture graphs, bar graphs and Venn diagrams (GPS, ITBS) (2MA_F2007-57)	<ol style="list-style-type: none"> 2. Communication and Collaboration 4. Critical Thinking, Problem Solving, and Decision Making 5. Digital Citizenship 6. Technology Operations and Concepts 	<p>Work with your LSTC to make the Georgia Public Broadcast videos, Math_Pancake_data.doc, and website below available to all student workstations in a computer lab or on a classroom projection device. (Work with your LSTC to download (do not stream) additional appropriate segments of the video from United Streaming Math Monsters Data Collection as needed.)</p> <p>After watching the 3 video segments from “Math Monsters Data Collection”, students will use the Math_Pancake_data.doc to make notes on the different kinds of pancakes the neighborhood wanted to see in the restaurant and then visit the virtual manipulative website and create a bar graph to represent collected data either from the video segment.</p> <p>Video Segment: Collecting_Data_About_the_Most_Popular_Pancake_Flavors.asf (length-2:54) Video Segment: Looking_at_the_Data.asf (length-3:08) Video Segment: Putting_All_the_Data_Together__Making_a_Bar_Graph.asf (length-3:15)</p> <p><i>(Microsoft Word Template: 2MA_Math_Pancake_data.doc)</i></p> <p>Website: http://nlvm.usu.edu/en/nav/frames_asid_323_g_1_t_5.html?from=topic_t_5.html (students name their graph, then name their “labels”, click the up/down arrows on columns and rows; then right click in the rectangles to match their data—different colors will appear)</p>
add and subtract two whole numbers up to three digits each with regrouping with accuracy and fluency (GPS, ITBS) (2MA_B2007-27)	<ol style="list-style-type: none"> 2. Communication and Collaboration 4. Critical Thinking, Problem Solving, and Decision Making 5. Digital Citizenship 6. Technology Operations and Concepts 	<p>Work with your LSTC to make the website below available to all student workstations in a computer lab or on a classroom projection device.</p> <p>After completing a lesson on adding two numbers together with accuracy and fluency, students will practice their skills in pairs with the following interactive website.</p> <p>http://www.oswego.org/ocsd-web/games/ghostbusters2/gb2nores.html (WOW, this one’s FUN!)</p>

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describe and classify plane figures (triangles, square, rectangle, trapezoid, quadrilateral, pentagon, hexagon and irregular polygonal shapes) according to the number of edges and vertices and the sizes of angles (right, obtuse, acute) (GPS, ITBS) (2MA_C2007-38)	<ol style="list-style-type: none"> 1. Creativity and Innovation 2. Communication and Collaboration 4. Critical Thinking, Problem Solving and Decision Making 5. Digital Citizenship 6. Technology Operations and Concepts 	<p>Work with your LSTC to make the Georgia Public Broadcast “Geometric Shapes” and “Patterns from Shapes” videos, and the Kidspiration template below available to all student workstations in a computer lab or on a classroom projection device.</p> <p>After describing and classifying plane figures, students will watch the video segments and then complete the Kidspiration template below to demonstrate their understanding of plane figures and geometric shapes.</p> <p>Video Segment: “Geometric_Shapes.asf” (length-5:44) Video Segment: “Math_Patterns_From_Shapes.asf” (length-5:11) Kidspiration Template: 2MA_Math_Shapes.kid</p>
represent and interpret quantities and relationships using mathematical expressions including equality and inequality signs (>, <, =) (GPS, ITBS) (2MA_E2007-53)	<ol style="list-style-type: none"> 2. Communication and Collaboration 4. Critical Thinking, Problem Solving and Decision Making 5. Digital Citizenship 6. Technology Operations and Concepts 	<p>Work with your LSTC to make the website(s) below available to all student workstations in a computer lab or on a classroom projection device.</p> <p>After talking about greater than, less than, and equal to, students will review what they learned with the Harcourt Think Math interactive lesson review below: http://www.harcourtschool.com/activity/show_me/e105.htm</p> <p>Students can practice what they learned at the following websites using <,>, and =. Harcourt Math Site Comparing Money: http://www.harcourtschool.com/activity/lets_compare/</p> <p>Students count money and then compare two amounts side by side. AAA Math Web site: http://321know.com/cmp.htm#topic1 (click on any of the “compare” lessons, then click “play” for ‘Countdown’, ‘Give me Time, or 21 Questions’)</p>

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<p>use repeated addition, arrays and counting by multiples (skip counting) to correctly multiply one-digit numbers and construct the multiplication table (GPS) (2MA_B2007-32)</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>Work with your LSTC to make the website(s) and templates below available to all student workstations in a computer lab or on a classroom projection device.</p> <p>After looking at a multiplication grid to determine a product of two numbers, students will review what they learned with the Harcourt Think Math interactive lesson review below: http://www.harcourtschool.com/activity/space_arrays/ As students practice multiplication facts they can fill in the blanks on a blank multiplication grid. <i>(Microsoft Word Template: 2MA_Math_Multiplication_Grid.doc)</i></p> <p>At the web site below, students complete an online multiplication grid. http://www.kidsnumbers.com/times-tables-games.php</p>
<p>explain the relationship among the standard units of inch, foot and yard and metric units of centimeter and meter and measure length to the nearest inch or centimeter (GPS, ITBS) (2MA_D2007-43)</p>	<ol style="list-style-type: none"> 2. Communication and Collaboration 4. Critical Thinking, Problem Solving and Decision Making 5. Digital Citizenship 6. Technology Operations and Concepts 	<p>Work with your LSTC to make the Kidspiration template below available to all student workstations in a computer lab or on a classroom projection device.</p> <p>After talking about mathematical expressions with addition, subtraction, multiplication, and division, students will review what they learned with the Kidspiration template below: <i>Kidspiration template: 2MA_Math_Number_Sentence.kid</i></p>