





# Technology-Connected Lesson Plan

<b>Title:</b>	<b>Fraction Clue Box</b>
Grade Levels:	5-8
Curriculum Areas:	☞ Math
Measurable Objectives:	<p>☞ <b>Lesson Objectives:</b></p> <ul style="list-style-type: none"> <li>☞ TSW distinguish between proper and improper fractions.</li> <li>☞ TSW create a "Character Clue Box" that represents a fraction.</li> </ul>
LA Content Standards:	<ul style="list-style-type: none"> <li>☞ Students demonstrate that a rational number can be expressed in many forms, and selecting an appropriate form for a given situation.</li> <li>☞ Students demonstrate number sense and estimation skills to describe, order, and compare rational numbers.</li> <li>☞ Students read, write, represent, and use rational numbers in a variety of forms.</li> </ul>
Grade Level Expectations (GLE)	<ul style="list-style-type: none"> <li>• Use Recognize, explain, and compute equivalent fractions for common fractions (N-1-M) (N-3-M)</li> <li>• Read, explain, and write a numerical representation for positive improper fractions, mixed numbers, and decimals from a pictorial representation and vice versa (N-3-M)</li> <li>• Recognize and compute equivalent representations of fractions, decimals, and percents (i.e., halves, thirds, fourths, fifths, eighths, tenths, hundredths) (N-1-M)</li> </ul>
K12 Educational Technology Standards:	<p>☞ <b>Technology Guidelines:</b></p> <ul style="list-style-type: none"> <li>• Technology Communication Tools</li> <li>• Technology Productivity Tools</li> <li>• Technology Research Tools</li> <li>• Basic Operations and Concepts</li> </ul> <p>☞ <b>Technology Performance Indicators</b></p> <ul style="list-style-type: none"> <li>• Identify, explain, and effectively use input, output and</li> </ul>

	<p>storage devices of computers and other technologies (e.g., keyboard, mouse, scanner, adaptive devices, monitor, printer floppy disk, hard drive).</p> <ul style="list-style-type: none"> <li>• 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> <li>• Use a variety of developmentally appropriate resources and productivity tools (e.g., logical thinking programs, writing and graphic tools, digital cameras, graphing software) for communication, presentation, and illustration of thoughts, ideas, and stories (e.g., signs, posters, banners, charts, journals, newsletters, and multimedia presentation.)</li> </ul> <p> Use technology tools (e.g., publishing, multimedia tools, and word processing software) for individual and for simple collaborative writing, communication, and publishing activities for a variety of audiences. (1,3)</p>
Technology Connection:	 Digital cameras, Power Point, scan converter, TV, printer
Procedures:	<p><b>Introduction:</b></p> <ol style="list-style-type: none"> <li>1. TTW introduce this activity by pulling 5 students to the front. (Choose 3 girls and 2 boys). TSW guess what fraction the group of students represent. (3/5 girls or 2/5 boys) TSW can guess other fractions for the students. (Maybe 4 of the students have dark hair and one has blonde hair = 4/5 or 1/5)</li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>2. TSW be put in groups. Each group will be given a digital camera. Each student will pick a fraction from a hat. TSW go outside and search for objects that represent a fraction. TSW take 6 pictures representing their fraction.</li> <li>3. TTW model how to use template of "Clue Boxes" in Power Point. TTW display what she is modeling on the television using her scan converter.</li> <li>4. TSW use Power Point to create their "Fraction Clue Boxes". TSW use their digital pictures to fill in the sides of the boxes with different representations of their fraction. TSW print, cut out, and glue "clue box" together.</li> <li>5. TSW use the WordArt to type their fraction. The</li> </ol>

	<p>fractions will be cut out and placed inside the "clue box."</p> <p>8. TSW exchange clue boxes to see if others can guess their secret fraction.</p> <p><b>Closure:</b></p> <p>9. TSW discuss which pictures were most helpful and why.</p>
Materials:	<p>🖨️ paper, pencil, computer, printer, digital cameras, students' disks, tag board, glue, scissors</p>
Assessment:	<p>🖨️ completed "Fraction Clue Box", teacher observation</p>
Teacher's Name:	<p>🖨️ Melissa M. Ryan</p>
School:	<p>🖨️ Loranger Middle, West Side Middle</p>