












Technology-Connected Lesson Plan

Title:	"Lucky Charmed Math"
Grade Levels:	5-8
Curriculum Areas:	☞ Math
Measurable Objectives:	<p>☞ Lesson Objectives:</p> <ul style="list-style-type: none"> ☞ TSW create Lucky Charm chart. ☞ TSW create a bar graph using Excel. ☞ TSW use chart and graph to complete Lucky Charm questioning sheet.
LA Content Standards:	<ul style="list-style-type: none"> ☞ In problem-solving investigations, students demonstrate an understanding of the real number system and communicate the relationships within that system using a variety of techniques and tools. ☞ In problem-solving investigations, students demonstrate an understanding of patterns, relations, and functions that represent and explain real-world situations ☞ In problem-solving investigations, students discover trends, formulate conjectures regarding cause-and-effect relationships, and demonstrate critical thinking skills in order to make informed decisions. ☞ Systematically collecting, organizing, describing, and displaying data in charts, tables, plots, graphs, and/or spreadsheets. ☞ Demonstrating the connection of data analysis, probability, and discrete math to other strands and to real-life situations.
Grade Level Expectations (GLE)	<ul style="list-style-type: none"> • Use various types of charts and graphs, including double bar graphs, to organize, display, and interpret data and discuss patterns verbally and in writing (D-1-M) (D-2-M) (P-3-M) (A-4-M) • Compare and contrast different scales and labels for bar and line graphs (D-1-M) • Organize and display data using spreadsheets, with technology (D-1-M) • Compare and contrast survey data from two groups relative to the same question (D-2-M)

	<ul style="list-style-type: none"> • Collect, organize, label, display, and interpret data in frequency tables, stem-and-leaf plots, and scatter plots and discuss patterns in the data verbally and in writing
<p>K12 Educational Technology Standards:</p>	<ul style="list-style-type: none">  Technology Guidelines: <ul style="list-style-type: none"> • Technology Communication Tools • Technology Productivity Tools • Basic Operations and Concepts  Technology Performance Indicators <ul style="list-style-type: none"> • Identify, explain, and effectively use input, output and storage devices of computers and other technologies (e.g., keyboard, mouse, scanner, adaptive devices, monitor, printer floppy disk, hard drive). • 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. • 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.)  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:</p>	 Microsoft Excel, scan converter, TV, printer
<p>Procedures:</p>	<p>Introduction:</p> <ol style="list-style-type: none"> 1. TTW introduce this lesson by reading a St. Patrick's Day poem. http://www.spiritisup.com/happystpat.html The teacher will tell the students that a leprechaun came by a left a treat for them. TTW give out bags of Lucky Charm cereal to each child. <p>Procedures:</p>

	<p>2. TTW explain to students that they will be creating their own bar graph to show how many of each kind of marshmallows are found in their Lucky Charms. TTW pass out recording sheet to the students. TSW will be responsible for counting their Lucky Charm marshmallows and recording the information on their sheet.</p> <p>3. TTW use her media station to model for the students how to use Microsoft Excel to record data and create a graph.</p> <p>4. TSW complete their Lucky Charm recording sheet and take turns rotating to the computer to complete their graphs. Once the graphs are completed, the students will create 3 word problems using their graph.</p> <p>Closure:</p> <p> 7. Students will share one of the word problems they created with the class. The class will solve each problem together and discuss.</p>
Materials:	 Lucky Charms, recording sheet, paper, pencil, computer, printer, students' disks, television, scan converter
Assessment:	 teacher observation, completed Lucky Charm Recording Sheets, completed graphs, completed word problems
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