

**ED 101 Educational Technology Lab – Fall 2011  
Boston University – School of Education**

# LESSON PLAN

<b>Grade(s)</b>	4
<b>Content Area(s)</b>	<i>Math</i>
<b>Topic of Lesson</b>	<i>Problem Solving</i>
<b>Three Objectives</b>	<ul style="list-style-type: none"> <li>• Given a worksheet with 10 problems, students should be able to apply a problem-solving strategy to correctly solve at least 6 of the 10 problems.</li> <li>• Each student should be able to create his own problem that can be solved using one of the strategies.</li> </ul>
<b>Technology standard</b>	<p>Standard 1. Demonstrate proficiency in the use of computers and applications, as well as an understanding of the concepts underlying hardware, software, and connectivity.</p> <p>Basic Operations <b><i>G3-5: 1.2 Select a printer, use print preview, and print a document with the appropriate page setup and orientation.</i></b></p>
<b>Curriculum Framework</b>	<b><i>1. Make sense of problems and persevere in solving them.</i></b>
<b>Materials needed</b>	<i>Students will need computers with internet access, printers and I will need a projector.</i>
<b>Lesson Procedure, Web Site Use, and Technology Standard Instruction</b>	<i>The students and I will go through the problem solving strategies together. We will then do practice problems together as a class. I will use the projector to go through that part of the website with them. Each student will have his or her own computer to complete the quiz and print out a worksheet. I will demonstrate how to print properly. The worksheet will contain all of the strategies and practice problems. The students will be paired and given instruction to work together to complete the practice problems.</i>

<p><b>How will students be assessed?</b></p> <p><b>How will you know if students have met the objectives stated above?</b></p>	<ul style="list-style-type: none"> <li>• <i><u>Objective 1:</u> Students should be able to identify 6 of the 10 problem solving strategies.</i></li> <li>• <i><u>Assessment 1:</u> The students will be asked to study the printed worksheet and at the end of the week, when given a worksheet of 10 problems, they should be able to identify what strategy to use for 6 out of the 10 problems.</i></li> <li>• <i><u>Objective 2:</u> Students should be able to correctly use 6 of the 10 problem solving strategies.</i></li> <li>• <i><u>Assessment 2:</u> At the end of the week, the students will receive a short quiz of ten problems. The students will need to correctly solve 6 out of the 10 problems using the proper strategies.</i></li> <li>• <i><u>Objective 3:</u> Each student should be able to create his own problem that can be solved using one of the strategies.</i></li> <li>• <i><u>Assessment 3:</u> At the end of their quiz, the students will be asked to write their own word problem and correctly solve it using the correct strategy.</i></li> </ul>
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