| Your Name | Ali Hall |
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| Your ED101 Lab Section | Section A1 |
| School | Alcott Elementary School |
| Grade(s) Observing | $5^{\text {th }}$ grade |
| Supervising Teacher | Ms. Oliver |
| List any teaching help you <br> may have during the lesson | Ms. Oliver will be available during the lesson in case <br> help is needed. |
| Setting (in class, in computer <br> lab, other?) | In class |
| Technology needed to <br> complete lesson | We will use the classroom's ActiveBoard as well as the <br> classroom's laptops. The students will work on the <br> laptops in pairs. |
| Other materials needed | Students will be given scrap paper to use while solving <br> practice problems during the lesson. |
| Content Area(s) | Math |
| Title of web site | Ms. Oliver's 5 ${ }^{\text {th }}$ Grade Problem Solving! |
| Topic of Lesson | Word problem solving |
| Goals of the Lesson | The main purpose of the lesson is to improve the <br> student's problem solving skills. We will review the <br> ten methods of problem solving to refresh their memory <br> and facilitate them as they complete practice problems. |
| Technology standard | Standard 1. Demonstrate proficiency in the use of menu/tool bar functions in a <br>  <br> Three Objectives <br> of the concepts underlying hardware, software, and <br> connectivity. <br> Word Processing/Desktop Publishing |
|  | Students will be able to correctly name at least six of <br> the ten different methods used for problem solving. <br> Students will be able to apply different methods of <br> problem solving to successfully solve the word <br> problems. <br> Students will be able to organize, plan, and create their <br> own word problem in addition to being able to <br> successfully solve problems. |


|  | word processing program (i.e., font size/style, line spacing, margins) to format, edit, and print a document. |
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| Curriculum Framework | > Massachusetts Mathematics Standards <br> $>$ Measurement and Data, Grade 4 <br> $>$ Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. <br> 2. Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale. |
| Introduction of Lesson | The lesson will take place in the students' classroom. The students will be sitting at their own desks in the order that they have already been arranged in. I will welcome the students back from lunch and say something along the lines of, "Hey guys! Now that we've had lunch and recess, lets get back to our school work and get our brains going with some problem solving!" |
| Lesson Procedure, Web Site Use, and Technology Standard | Once I have gained the students attention, we will view my website in the front of the classroom on the ActiveBoard. As a class we will look at the Word Problem Solving Checklist on the ActiveBoard and review the procedure for answering a question. Next, we will scroll through the website and learn about all ten types of problem solving. I will read the definition and explanation of each method. Each method will have a short and simple example. After I have read all the information about a particular method, the students will have a few moments to talk to their neighbors and we will come to a conclusion for the solution as a class. After we have completed this as a class, the students will get up and retrieve a laptop from the classroom's laptop cart. Once they have logged on to the computers, they can go to my website and click on the quiz tab. After they have all completed the quiz, they |


|  | will be given the remainder of the class time (which is <br> an hour long) to create their own word problem. They <br> can brainstorm and plan it out on scrap paper to begin. <br> Then, they will be asked to type up their question in a <br> neat format, leaving plenty of space for the problem to <br> be solved below, and print them. Once the students <br> have reached the step of typing their own problems, I <br> will demonstrate on the ActiveBoard how to set up their <br> problems in a Word document, and also explain how to <br> save and print them from the school printers. |
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| How will students be <br> assessed? | The students will swap the problems they created and <br> printed with another student in the class and take them <br> home to complete for homework. If they can <br> successfully solve each other's word problems for <br> homework, they can receive a sticker in class the next <br> day (stickers lead to rewards in class such as homework <br> passes and other treats). |
| How will you know if <br> students have met the <br> objectives stated above? | 1. Students will be able to correctly write at least six of <br> the ten different methods used for problem solving. |
| then |  |


|  | the problems home to complete for homework. |
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| Web-based Quiz | 1. Which of the following is NOT a problem <br> solving technique? <br> a) Guess and Check |
|  | b) Brainstorm <br> c) Take a wild guess <br> d) Look for a pattern |
| 2. What should you always do after solving a <br> problem and labeling your answer? <br> a) Start working on the next question <br> b) Double check your answer <br> c) Pass in your solution to Ms. Oliver |  |
|  | d) Ask your neighbor what they got for an |
|  | 3. Before you begin solving a problem, what |
| should you do? |  |

