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2015

MAT 95: Problem Solving Process and Strategies

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CUNY La Guardia Community College

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Designing Information Assignments for Literacy

Professor's Name: Salvatore Sommella

Course Name/Section: Mat 95/ Problem Solving: Process and Strategies

Activity Duration: Unknown

Activity Learning Objectives:

- Introduce the Concepts/Benefits of the Problem Solving Process.
- Demonstrate to students various strategies available to solve problems.

Activity Description:

Be able to understand and apply the four (4) steps of Problem Solving.
Be able to apply a problem solving strategy – Do hands-on problems.

Vocabulary/Keyword(s)

- a. Exercise
- b. Problem Solving
- c. Problem Solving Strategy
- d. Picture-or-diagram
- e. Pattern

Materials and Resources:

Provide your instructions, handouts, and links to any other materials students use to do the activity.

- f. Dial_probSolvPro.ppt [Powerpoint Presentation (97-2003)] – Problems Solving Process.
- g. DialProbSolv.doc_worksheet [Word (97-2003)] Problem Solving Worksheet for students.
- h. Dial_stratDiagram.ppt - [Powerpoint Presentation (97-2003)] – Problem Solving Strategy – Draw a picture or diagram.
- i. DialAssign.doc – [Word (97-2003)] Problem Solving Strategy – draw a picture or diagram worksheet for students.
- j. www.youtube.com/watch?v=Xa8d9p_2Fkc – YouTube video – Problem Solving.
- k. www.youtube.com/watch?v=fGO7AR0ykKk – Problem Solving.

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Activity

G: Problem Solving Worksheet.

Name: _____ Class: _____ Date: _____

Answer all questions in complete coherent sentences.

1. Name the four steps in problem solving?
2. Explain the difference between a problem and an exercise.
3. When would you change your point of view?
4. How would you determine the reasonableness of a problem?

I: Problem Solving Strategy – Draw a picture or diagram worksheet for students.

Name: _____ Class: _____ Date: _____

Directions: Draw a picture or diagram to help you solve each problem. Show all work.

The eight teams in a tournament compete in a single-elimination (out after 1 loss). How many tournament games will the winner of the tournament have to play?	How many tournament games will the winner of the tournament have to play if there are 16 teams in single elimination?
3 containers have capacities of 3, 5, and 9 liters. How can you use these containers to measure exactly 7 liters of water?	The lengths of 3 rods are 6cm, 9cm, and 11cm. How can you use these rods to measure a length of 14cm?
Notes:	

