Open Educational Resources   LaGuardia Community College

2015

MAT 95: Problem Solving Process and Strategies

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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.

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 – D**raw 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:	