

GED 2002 Teachers' Handbook of lesson Plans

Area/Skill –Problem Solving	Cognitive Skill Level - Application	Correlation to Framework -	Lesson Number
<p>Activity Title- Detective</p> <p>Goal/ Objective Students will learn to apply the Problem Strategy Draw a Diagram for solving a real life problem and a math problem.</p> <p>Lesson Outline Introduction There are some specific ways to attack and solve problems whether real life or mathematical. One good way to solve problems is by drawing a diagram. This can be a picture of the facts or data involved in the problem. It does not have to be an artistic rendition, but must be somewhat accurate and display as many details as possible.</p> <p>Activity Read the attached stories and try to find the answers by drawing diagrams of the crime scenes.</p> <p>The Case of the ATTIC SUICIDE (Clue: Look at the line of sight the man servant had.) The Case of the BALLOON MAN (Clue: Look at the tree and the direction of the wind.)</p> <p>The students should draw a diagram of each scene noting the details as they are presented to the detective. Then they compare the details with the story and figure out why the detective was right.</p> <p>Debriefing/Evaluation Activity Discuss the use of diagrams to represent the setting of the problem. Talk about thinking out of the box (looking at a problem a different way than you normally would.)</p> <p>Have the students write a problem where a diagram would help solve a problem. (A traffic accident, hanging a picture on a wall, etc.)</p>			<p>Materials/Handout The Case of the Attic Suicide The Case of the Balloon Man</p>
			<p>Extension Activity</p> <p>Assign several math problems that they can solve better by drawing a diagram.</p> <p>Have the students draw a diagram of the class and suggest ways to better use the space in the room.</p>
			<p>ESE/ESOL Accommodations</p> <p>Cooperative learning group</p> <p>Peer assisting</p> <p>Define words by drawing pictures of the words</p>
<p>Real –Life Connection</p> <p>Invite a law enforcement officer to visit the class and demonstrate how a crime scene is investigated. Ask the officer about using pictures and diagrams in listing details and solving crimes.</p> <p>Invite an architect to visit the class and talk about drawing diagrams to solve space needs for a business or a home.</p>			

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<p>Activity Title- Detective</p> <p>Introduction Say: Problem solving is a great skill. There are strategies you can use that help solve some problems whether they are math problems or other life problems. One of these strategies is Drawing A Diagram. To help us keep track of details and to see the relationship of these details we are going to solve two crimes. Read each case and try to answer the question at the end. After you have read the case the first time, draw a diagram of the scene on the back of each handout. Next go through each paragraph making sure every detail is represented in the diagram that you have drawn.</p> <p>From your diagram, write your conclusion at the bottom of your page.</p> <p>Main Activity</p> <p>Read the detective cases, draw a diagram for each scene and write the solution at the bottom of each drawing.</p> <p>The Case of the ATTIC SUICIDE (Clue: Look at line of sight. Does this fit the testimony of the servant?)</p> <p>The Case of the BALLOON MAN (Clue: Look at the tree and the direction of the wind. How does this fit with the testimony of Sam Potts?)</p> <p>Closure/Conclusion Compare the students' answers. Make a drawing on the board of each situation and have the students compare their answers you yours. Talk about other types of problems that could be solved by using a diagram. Talk about how some math problems can be solved using this method.</p> <p>Follow-up Lessons/Activities Say: After you have completed this activity, you may want to look at problems you have done in your math book and see if this would help solve some of them. Also look at your work place and home and see if by drawing a diagram you could come up with a new, more efficient way, to arrange your living room or office (or workspace) for safety and efficiency.</p>			

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