

Applying Problem Solving

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Introduction

Students get to solve various problems in class, which range from Mathematics to social issues. These problems help students to develop and apply problem solving techniques, which are essential in promoting their critical analysis of their environment along with its complexities.

Problem solving abilities are therefore very important in developing intellectuals for enrichment of the society. It transforms student learning techniques into participative rather than passive recipients when it comes to creation of understanding.

Students develop capacity to Apply problem solving skills whenever faced with unexpected occurrences or situations in a timely manner. Real world problems are usually different from class problems, this call on students to recollect and transform their problem solving skills into solution for real world problems.

This paper will explore two real world problems and provide persuasive as well as scientific thinking solutions to them (Harris, 2002, p. 1).

Problem solving techniques are those skills used to solve life problems. They refer to an individual's ability to reason both inductively and deductively, as well as be able to apply logic which can help that individual to infer problems, analyze and think critically.

These problems may require solutions arising from different elements such as persuasive thinking as well as scientific thinking, among others. Most problem solving processes involve the following stages; problem identification, analysis, generation of potential solutions, testing of solutions and evaluating the outcome.

In order to ensure that these methods are well applied, one needs to critically analyze the problem encountered. The following is an illustration of problems and their solutions (Harris, 2002, p. 1).

Problem Solving Term Papers

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Problem Solving Term Papers:

Complex Problem Solving Beyond the Psychometric Approach Wolfgang Schoppek, Joachim Funke, Magda Osman, Annette Kluge, 2018-09-28 Complex problem solving CPS and related topics such as dynamic decision making DDM and complex dynamic control CDC represent multifaceted psychological phenomena In abroad sense CPS encompasses learning decision making and acting in complex and dynamic situations Moreover solutions to problems that people face in such situations are often generated in teams or groups This adds another layer of complexity to the situation itself because of the emerging issues that arise from the social dynamics of group interactions This framing of CPS means that it is not a single construct that can be measured by using a particular type of CPS task e g minimal complex system tests which is a view taken by the psychometric community The proposed approach taken here is that because CPS is multifaceted multiple approaches need to be taken to fully capture and understand what it is and how the different cognitive processes associated with it complement each other Thus this Research Topic is aimed at showcasing the latest work in the fields of CPS as well as DDM and CDC that takes a holist approach to investigating and theorizing about these abilities The collection of articles encompasses conceptual approaches as well as experimental and correlational studies involving established or new tools to examine CPS DDM and CDC This work contributes to answering questions about what strategies and what general knowledge can be transferred from one type of complex and dynamic situation to another what learning conditions result in transferable knowledge and skills and how these features can be trained

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mathematics or thinking in terms of its relations with the real world involve quite different processes and issues This book includes the revised papers presented at the NATO ARW Information Technology and Mathematical Problem Solving Research held in April 1991 in Viana do Castelo Portugal which focused on the implications of computerized learning environments and cognitive psychology research for these mathematical activities In recent years several committees professional associations and distinguished individuals throughout the world have put forward proposals to renew mathematics curricula all emphasizing the importance of problem solving In order to be successful these reforming intentions require a theory driven research base But mathematics problem solving may be considered a chaotic field in which progress has been quite slow

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