



Logic Puzzles

Lesson Plan: Class 02 / PS / 32



Overall goal of the lesson: Children will learn Problem solving skills

Prior knowledge required: One digit addition/subtraction.

MODULE 1:

Module time: 35 minutes

Goal: Puzzles

Description: Children will learn about Arithmagon and how to solve them.

Material required:

Physical:

1. One copy of the worksheet per child.
2. Writing material to solve the worksheet: pencil and eraser.

Electronic:

PPT Presentation

Procedure Summary:

Explain each problem and the process to solve them with step wise improvements.

Procedure Details:

Arithmagon Puzzle:

1. Start with explaining what the problem is:
 - a. A positive number needs to be in each of the circles such that, the sum of 2 corners is equal to the number in the square in between them.
2. Next, explain how to approach it by trial and errors method.
 - a. Write down the possible sum combinations of a number in a square, here 7.
 - b. Explain how to find the correct combination.
3. Then, show how to optimize and try fewer combinations:
 - a. As the bigger number of the combination will always go in circle next to bigger square, half the combinations can be rejected without trying.
 - b. Smaller the number less will be the combinations. Therefore, ask the students to choose the smallest number in the squares for trial combinations.
4. Summarize complete process again.

Assessment :

Answer questions on the activity sheet