



Logic Puzzles

Lesson Plan: Class 01 / PS / 29



Overall goal of the lesson	Children will learn to play a type of logic puzzle and learn to solve them systematically
Prior knowledge required	None

MODULE 1: **Module time:** 35 minutes

Goal:	Learn to solve puzzles systematically.
Description:	Introduce a logic puzzle.
Material required:	<p>Physical:</p> <ol style="list-style-type: none"> 1. One copy of the worksheet per child. 2. Writing material to solve the worksheet: pencil and eraser. <p>Electronic:</p> <p>PPT Presentation</p>
Procedure Summary:	<ol style="list-style-type: none"> 1. Distribute the worksheets to the children. 2. Use the presentation to discuss the puzzles
Important Note:	The intention of this session is to teach children how to solve problems systematically. It's fine if they do not get to the correct answer each time, as long as they are solving without random guesswork. So please spend time helping children focus on the process of solving, rather than stressing the finding of the correct solution every time.
Procedure Details:	<ol style="list-style-type: none"> 1. Read out the introduction to the word 'puzzle'. We won't spend too much time on this. 2. Say that today we'll play something called Word Mazes. 3. Before we begin, let's revise the concept of a 'row' and a 'column'. With the example, show what a row and column is. 4. In puzzle 1, we'll find a 3-letter animal in the row. Ask students to look at the screen and find the answer. 5. The answer is DOG 6. How did we solve the puzzle? One approach: try guesswork. Another, more systematic way is to look at the 3-letters beginning with the first letter and see if it is an animal name. If not, move to the next letter, and repeat the same. 7. Puzzle 2 is similar to Puzzle 1, but this time in a column. Here, locate a 3-letter word that is used to 'hit' something. Ask students to try and find the answer (and write it down, instead of shouting it out). 8. Check if students were able to find it out. Also, remind them how they can solve this systematically, by looking at groups of 3 letters starting with the first. 9. Answer: BAT. 10. Time for a bigger puzzle.

	<p>11. We'll be finding two words, one hidden in a row, and the other in a column. Read out the puzzle.</p> <p>12. Let's start with Part 1. Focus on the rows. Ask students to write down the answer. Ask them to look at 3 letter words, beginning with the first letter in each row.</p> <p>13. Now part 2 – focus on the columns. Again, ask students to write down the answer. Look at 3 letter words .</p> <p>14. Show the answers. For those who did not get the answer, show how the students could have solved it by looking at groups of letters.</p> <p>15. If there is time, let's move to the activities</p>																																															
Activities:	<p>Ans to Activity 1: TEA</p> <table><tr><td>T</td><td>E</td><td>P</td><td>U</td><td>T</td><td>E</td><td>A</td></tr></table> <p>Ans to Activity 2: NO</p> <table><tr><td>R</td><td>P</td><td>P</td></tr><tr><td>L</td><td>C</td><td>A</td></tr><tr><td>T</td><td>T</td><td>S</td></tr><tr><td>S</td><td>N</td><td>T</td></tr><tr><td>E</td><td>O</td><td>O</td></tr></table> <p>Ans to Activity 3: CAT and CAP</p> <table><tr><td>W</td><td>O</td><td>L</td><td>I</td><td>R</td></tr><tr><td>O</td><td>E</td><td>S</td><td>D</td><td>K</td></tr><tr><td>C</td><td>A</td><td>P</td><td>N</td><td>J</td></tr><tr><td>A</td><td>E</td><td>O</td><td>K</td><td>S</td></tr><tr><td>T</td><td>L</td><td>N</td><td>W</td><td>A</td></tr></table>	T	E	P	U	T	E	A	R	P	P	L	C	A	T	T	S	S	N	T	E	O	O	W	O	L	I	R	O	E	S	D	K	C	A	P	N	J	A	E	O	K	S	T	L	N	W	A
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Information Broadcast:	In Computer Science, the children learnt about solving puzzles related to Word Mazes																																															