

Listing-Counting-Reasoning Lesson Plan: Class 02 / LCR / 02



MODULE 1: Module time: 35 minutes

Overall goal of	Being able to understand patterns and relations and determine if a set is complete
the lesson	
Prior knowledge	Numbering system, Even/Odd numbers, multiplication by two
required	
Goal:	Find the missing numbers to complete a set of numbers
Description:	Identify a set of numbers and find the numbers missing in that set
Material	Physical: Printed worksheets, color pencils/crayons, regular writing pencils, old calendars
required:	and car paper to make numbered cards, glue or staple. 10 caps of a common drinking water
	or any plastic bottle, and marker pens to write numbers inside.
	Electronic: PPT – Accompanying presentation
NOTE	Students may need multiple copies of all worksheets to retry and get to the correct
	solution. Please be prepared for 2 or even 3 copies of a worksheet per student.
Procedure	This is expected to be an activity filled but simple lesson for the class
Details:	Use old calendars to create numbered cards.
	 Simply cut the numbers for dates and glue or staple them to card paper
	 Create equal sized card paper cards, but only with even numbers for the
	activity
	 Ensure children take a note to identify similar looking numbers and are able
	to clearly distinguish the cards
	 No two cards can be same face value (number displayed on them)
	 Make cards following these rules, such that for every student desk there is
	one card, and that
	 Each card is even numbered and represents a desk number half of the face
	value (number on the card)
	Choose 3 volunteers to assist in the activity
	Make the children count the benches in the class
	Help students understand that number of cards and number of desks are same
	 Now ask the volunteers to hide those cards with a simple rule such that all cards can
	be found by the rest of the class and no card will be too difficult to find
	 Allow the rest of the students to find those cards – help them find if needed
	Have them lay those cards on your table in the same pattern as student desks
	Ask questions on how they know it is a complete set
	 Total number of cards = total number of desks
	 All cards with even numbers are found
	 Ask what is the minimum card value and what is the maximum card value
	 If the upper number is too high, adjust the desk count and card count
	appropriately to control the upper bound of the card value in the card set
	Repeat a similar exercise with plastic bottle caps
	 Explain the principle of a number set, the lower and upper bound and a pattern
	Explain the principle of a number set, the lower and apper bound and a pattern Explain how that helps solve a puzzle in an activity
	- Explain now that helps solve a pazzle in an activity
Summary	1. The students can determine the lower and upper bounds for a set of numbers
	2. Once they establish a pattern, they can find all missing numbers in that set

Optional	The worksheet is completely optional and can be used as a home assignment
	somestudents to rea dup on.