Patterns in Numbers
Lesson Plan: Class 03 / IPP / 01

Overall goal of the lesson: Children will learn about PATTERNS IN NUMBERS
Prior knowledge required: None.
MODULE 1:
Module time: 35 minutes
Goal: To get the students to understand and identify patterns in numbers. Also to understand how to find what comes next in a given series and to spot imposters in a pattern.
Description: Children will learn about patterns in numbers and have fun through an interactive class.

Material required:
Physical:

1. One copy of the worksheet (03-IPP-01) per child.
2. Writing material to solve the worksheet: pencil and eraser.

Electronic:
PPT Presentation for 03-IPP-01

Procedure Summary:

1. Distribute the worksheets (03-IPP-01) to the children.
2. Read through the worksheet and discuss with the class about patterns in numbers.

Procedure Details:

1. Start the class with an intro and tell them we are going to learn about patterns in numbers
2. Tell them, we will start with a small group quiz
3. Go to Slide 2 (first slide after title slide)
4. Tell them to Start guessing the next number in each series.
5. Do the same for slide 3 and 4
6. At slide 5, ask the students to guess where else they can see patterns in numbers. Give them some examples such as number of days in a month. Jan – 31, Feb- 28/29 , Mar – 31, Apr – 30 so on…
7. If needed give them more examples to get them to start thinking. Patterns in their roll numbers (roll numbers are in serial order), keys in a keyboard(piano) are at specific positions etc
8. slide 6 – Show them the beads necklace and say Assuming the green bead is at 1, then all green beads are at odd positions. 1,3,5,7, so on. And all yellow beads at even positions – 2, 4, 6,8 so on..
9. Do the same for slide 7 – show that cars occur at odd positions while giraffes occur at even positions
10. Slide 9 explains the steps for identifying patterns in detail. In this slide, we say that we are just increasing the number by 1. (ask students by how much are we increasing?)
11. Slide 10 – In this series we are increasing the numbers by 2 – or we are looking at all the even numbers
12. In slide 11 we are increasing the numbers by 5
13. Slide 14 explains an Imposter. In a series of even numbers, 7 is an Imposter because it is an odd number. Explain that Imposter is that number which when removed the series seems perfect.
14. Slide 15 and 16 conclude the lesson
15. Ask them if they can think of any other patterns
16. Announce that they are now going to get a chance to do some fun activity based on what they have learnt.
17. Distribute the worksheets.
18. Explain the activities to be done.

Assessment :
Answer questions on the activity sheet

Information Broadcast : In Computer Science, the children learnt about what are patterns and how to identify them.