

ACTIVITY-10

Subject	MATHEMATICS
Class	IV
Chapter/Unit	PLAY WITH PATTERNS
Topic	CODING DECODING
Time	30 minutes
Nature of Activity	Group

What will I learn(Learning outcome)?

Expressing secret messages in the form of numbers using secret codes.

Skills:- Creating , Critical Thinking, Problem Solving

What I have to do?

To recognize the hidden message by changing the numbers into alphabets.

What do I require?

A4 size sheet, pencil, and eraser.

What do I need to know?

Series of alphabets from A-Z and formation of words using alphabets.

➤ **Teacher's Activity**

Teacher will divide the class in groups of 2 .

How will I proceed?

➤ Student's Activity

- 1) Each child should complete this list of letters and numbers before forming words:

[illegible]

- 2)
- 3) Each child will write some numbers on the sheet of paper so that a meaningful word can be formed .
For example, 'J' is 10, 'P' is 16. So



Is

10, 21, 13, 16

- 4) Now both the children will exchange their sheets among themselves and find the hidden messages

What have I observed?

My number code _____

My secret message_____

What have I learnt?

To express the message hidden in the form of numbers.

What am I curious to know?

If we change the rule and write 1 in place of 'B', 3 in place of 'D' and so on, then how will we write 'Let Us Dance'?

Let me evaluate myself:

Use the code box to write the letters above the numbered Spaces below:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	@	!	%	^	&	*	+	-	×	÷	=	#	?	/	"

Q1) Can you decode me?

a) ! 1 × 8 - 9 - 6 ÷ %

b) - 1 = 5 # 1 × 5 + - 1 = 5 5 1 + × 8

c) - × 1 / 8 ^ ! 5 - × 1 / - 1 6 5

d) % 5 = 5 + * ÷ 9 ×

Q 2) Observe the number pattern and extend:

a) 2462, 2464, 2468 , _____ , _____ , _____

b) 7353, 7358, 7363, _____ , _____ , _____

c) 9890, 9880 , 9870 , _____ , _____ , _____

d) 4111, 5111, 6111 , _____ , _____ , _____

e) 6250, 6300, 6350, _____ , _____ , _____

f) 4510, 4514, 4518, _____ , _____ , _____

g) 2345, 2346, 2347, _____ , _____ , _____

h) 9323, 9322, 9321, _____ , _____ , _____

i) 5214, 5224, 5234, _____ , _____ , _____

j) 1946, 1951, 1956 , _____, _____, _____