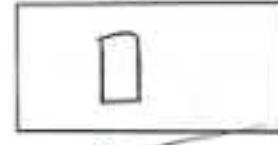
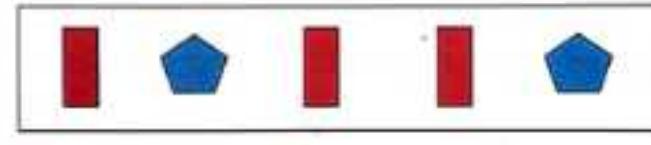
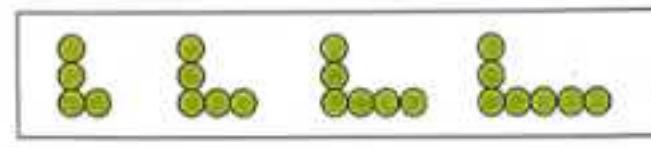
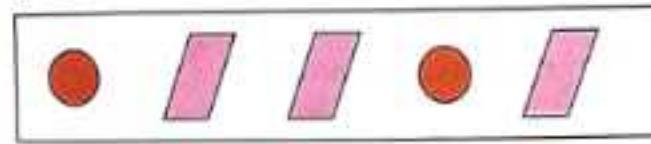
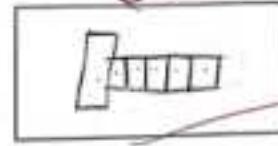
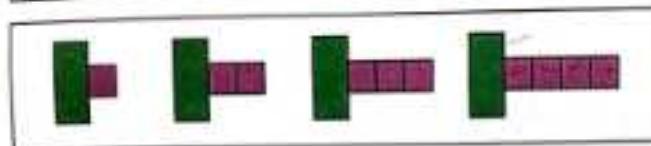


## Activity Drawing

### GROWING AND REPEATING PATTERN

Draw and color the picture that comes next in each pattern.



### Decomposition

Decomposition means breaking down a problem into smaller parts that are easier to understand.

Do you know we use decomposition in our daily lives too?

Let us decompose the process of how to brush our teeth.

- Take out your toothbrush.
- Wash it with clean water.
- Apply toothpaste on it.
- Gently brush your teeth with it.



Decomposition is an important life skill needed to take on larger tasks.

4



5



6



6



5



6



Look at the symbol given with each alphabet. Write the names of different parts of computer.

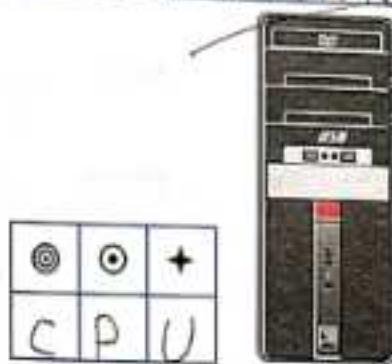
○	○	●	✖	❖	●	✖	❖	○	+	❖	❖	○	□	+	△	
O	M	I	N	E	A	R	T	C	U	S	B	D	P	K	Y	L



○	○	+	❖	❖	❖
M	O	U	S	R	



□	❖	+	❖	○	❖	+	❖
K	E	Y	B	O	A	R	D



○	○	✖	●	✖	❖	○	❖
M	O	N	I	T	O	R	

○	○	+
C	P	U

Now,  
decode  
the sentence  
given  
below.



●
I

△	●	□	❖
L	I	K	E

○	○	✖	○	+	❖	❖	+
C	O	M	P	U	T	E	R

## CODE WITH MATHS

Find the sum and color the picture, using the color code.

$1 + 2 = \underline{3}$  Brown

$1 + 0 = \underline{1}$  Red

$1 + 1 = \underline{2}$  Yellow

$3 + 1 = \underline{4}$  Green

$3 + 3 = \underline{6}$  Blue

$2 + 3 = \underline{5}$  Black

### Art Integration:

Students will understand the concept of color-coding in coloring an image.



### In a Nutshell

- Patterns are regular arrangements of lines, shapes and colors.
- Growing pattern and repeating pattern are two types of pattern.
- Decomposition is breaking down of a problem into smaller parts.
- Coding is the representation of information using symbols or pictures.
- Decoding is converting the information back to its original form.



## **Exercises**

### **A. Write 'T' for True and 'F' for False statements.**

1. Growing pattern does not add anything to itself.
2. We use decomposition in our daily lives too.
3. Coding represents information using symbols.

F  
 T  
 I

### **B. Fill in the boxes.**

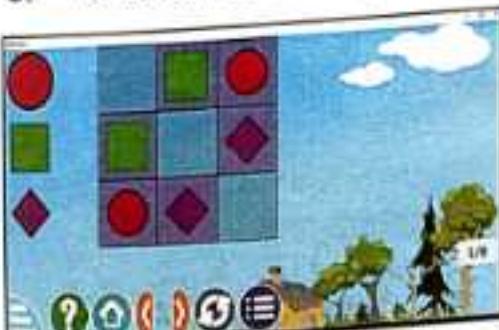
1. **R E P E A T I N G** patterns does not add anything to itself.
2. **D E C O M P O S I T I O N** makes things easier to understand.
3. When we represent information using symbols or pictures, it is called **C O D I N G**.

25/11/15

## **Lab Activity**

### **Open the Educational Suite GCompris [ ① ].**

1. Click on this icon [ ① ] from the top of GCompris.
2. Click on Logic [  Logic ② ].
3. Click on Sudoku, place unique symbols in a grid [  ③ ].



### **PLAYING METHOD**

You can play this game by selecting the symbols on the left and click in its target position. This game will not let you enter invalid answer.

This game requires logical ability.

#### **Subject Integration**

##### **Mathematics**

The students would be able to identify 2D shapes using GCompris (IT tool).

#### **Skill Formation**

Students would learn about decomposition which enhances their understanding of computational thinking.