<u>CLASS -VIII</u> <u>CODING</u> <u>2024-25.</u>

CLASS - VIII	CODING	<u> 2024-25.</u>
Date	Торіс	Ex./ Demo./Practicals
Important links	Student HandBook- https://cbseacademic.nic.in/web_material/cod eingDS/classViiI_Coding_Student_Handbook .pdf	
April	Variables and Datatypes	
No.of working days- 22	What are Variables? Naming Variables Data Types in Variables Performing operations on Variables What is Variable Initialization?	Practical based on all mentioned operators Activity1 - Can you create a Triangle?
May No.of working days- 18	Conditional in Details Types of control structures Understanding of IF-Else ans Else- If Statements Flow chart - to check no. is Odd or Even using if- else	
July No.of working days-	Get Creative with Loops What are the loops Different types of loops The While Loop	Activity - Divisibility of a number by 7 or 9 or by both Activity: Create a staircase using for and
25	The For Loop Nested loops Exit Criteria	while loops Activity: Raining pigs and pandas
August	Fun with Functions	
No.of	Introduction What exactly are functions? Examples of Functions in Arcade	Activity - 1. Calling a function which has no parameters
working days- 23	Advantages of using functions How to reduce redundancy using functions Advantages of using Functions What are different Function Parameters?	Activity -2. Calling a function with a single parameter

September	Functions in depth	ActivityTo display a cube of number
No.of working days- 23	Function Parameters	Activity: Calculating Volume of Cuboid
	Returning value from a function	Activity- Return Values from Function
	Calling function to print statements	
October	UNDERSTANDING ARRAYS	Example 1: Is 36 a perfect square?
No.of working days- 20	What arte collections? What are arrays?	Activity – Algorithm for a perfect square
November	UNDERSTANDING ARRAYS	Activity - To create an array and
No.of working days- 23	How can we iterate over collections?	calculate its length
	Modifying Collections	Activity- To print the first element of Array
	Adding Elements During Iteration	
	Removing Elements During Iteration	1
December	Programming with arrays	
No.of working days- 24	Playing with Colors	Activity - To calculate the sum of
	Array declration	elements in an array
	To add an item in an array	Activity - Use of append function
	Working on array using for loop	
January	Programming with arrays	Activity: Building stairs
No.of working days- 13	Sorting an Array	A -4::4 A i di
	Searching in an array	Activity- An array in ascending order using bubble sort
February		
No.of working days - 22	Submission and assessment of the projects	

Note: The students will be assessed on the basis of the classroom performance, task assigned as Home Assignments / Holiday Homework / Project.