CODING

CLASS -VI   **2023-24**

Date	Topic	Ex./ Demo./Practicals
Important links	**Student HandBook-** https://cbseacademic.nic.in/web_material/codeingDS/classVII_Coding_Student_Handbook.pdf	**Project Booklet for Student -** https://www.microsoft.com/en-us/makecode https://cbseacademic.nic.in/web_material/codeingDS/classVI_Coding_Project_Booklet.pdf
April	**INTRODUCTION TO CODING**	Practicals Based on Demo
No.of working days-20	How do traffic lights work?	
	Where else do we see applications of coding?	
	What exactly is coding?	Activity - How do traffic lights
	What is a programming language	Quiz Time
May	**ALGORITHMS WITH BLOCK CODING**	Activity – Profit and Loss using Flowcharts
No.of working days- 11	1. Searching for a word in a dictionary 2. Flowchart a. What is a Flowchart? b. Symbols used created a Flowchart c. Benefits of using a flowchart 3. Activity – Profit and Loss using Flowcharts	Quiz Time Practicals Based on Demo
July	**ALGORITHMS WITH BLOCK**	Activity – Profit and Loss using pseudocode
No.of working days-24	4. What is a Pseudocode 5. Activity – Profit and Loss using pseudocode 6. Getting Started with Block Coding	
	VARIABLES USING BLOCK CODING 1. What are Variables? 2. Naming Variables	To create variable 'a' in makecode arcade and assign it a value of 10
August	**VARIABLES USING BLOCK CODING**	Activity: Addition operation using block coding
No.of working days-24	3. Data Types in Variables 4. Performing operations on Variables	Quiz Time
September	**CONTROL WITH CONDITIONALS**	Practicals Based on Demo
No.of working days-23	Arranging blocks	
	Logical Operators a. And operator b. OR operator c. Not operator	Quiz time
	Combining logical operators	

October	**CONTROL WITH CONDITIONALS**	
No.of working days-19	Relational operators	Activity: Are you a teen?
	Greater than	
	Equal to	
	Less than	
	Greater than or equal to	
	Less than or equal to	
	Not equal to	
November	**CONTROL WITH CONDITIONALS**	Activity: Dynamic backgrounds
No.of working days-21	Nested Conditional Statements	Activity: The remainder problem
	Activity: The remainder problem	
December	**Loops using block coding**	
No.of working days-25	Introduction to Loops	Practicals Based on Demo
	Increment Loops	
	Different types of loops	
	While loop	
	For loop	
January	**Loops using block coding**	Activity: Building a music player
No.of working days-13	The Nested Loop	Activity: A tale of two villages
	Entry Criteria	
	Break Statement	
	Exit Criteria	
	Continue statement	
February No.of working days-24	**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.		