

**Class VII**

Sr. No	Topics	Concepts	Skills	Time theoretical	Time practical
1	<b>Revision 1 to 7</b>			2	
2	<b>Revision 8 to 13</b>			2	
3	Step-wise Thinking	Different steps involved in an activity	Breaking down and activity into a list of main steps	4	
		Important of sequence of the steps in an activity	Identifying the detailed step of every main step		
		Step wise instructions given to a computer	Given the various tasks of an activity, identify the sequence of tasks		
4	Introduction to scratch	Instructions within a program	Using commands of motion, pen and sound blocks	2	4
		Construction of a program with a set of instructions	Write a script (program) using drag and drop of graphic blocks		
			Execute the script and view the result in the stage area.		
5	Asana while using computer	Importance of exercises while using computer	Exercise for wrists, neck, eyes and spine	2	
	Healthy practices	Importance of exercises	Exercises for legs, ankles and foot muscles		
		Taking care of health while using computer	Exercise to improve balance		
6	Simple animation with scratch	Control instruction in a program	Construct a program by using instructions of control block	2	4
		Loop and conditional instructions	Changing background of a program		
7	Fun with Text Processing	Text editing	Formatting text:	2	4
		Formatting guidelines	Bold, Italics, underline		
			Changing font type, size and colour		
8	Logical Thinking	Reasoning	Identifying goals, information and conditions for problem solving	2	2
		Problem solving			
9	Programming Multiple Sprites in Scratch	Control statements	Writing scripts using scratch controls.	2	4
		Coordination between program parts	Change parameters in Scratch block		
10	More activities using Scratch	Animation of concepts in other subjects	Writing scripts for games and stories	2	2
11	Binary Number System: bits and Bytes	Binary Numbers	Converting words to corresponding Binary code	2	2
12	Image Editing:	Image editing	Cropping an image	2	2
	Creating Collage	Pixels	Scaling an image		
			Adding text to an image		
			Printing an image		

M.P.  
8/2/17