

| September | Apply Loops and Conditionals with sequencing | Activity: Distributing Birthday Sweets |
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| No.of working days-23 | Is there a better way to apply sequencing? |  |
|  | Better way to create a square | (https://scratch.mit.edu/) |
|  | Introduction of <br> Code.org | Create a rectangle of length 5 and height 3 using a loop (repeat block) in Minecraft. |
| October | FUN WITH FUNCTIONS | Activity - 1. Calling a function which has no parameters <br> 2. Calling a function with a single parameter |
| No.of working days-20 | Introduction <br> What exactly are functions? <br> Examples of Functions in Arcade |  |
| November | FUN WITH FUNCTIONS | Activity -. Calling function to print statements |
| No.of working days-23 | Advantages of using functions |  |
|  | How to reduce redundancy using functions | Activity - .To display a cube of numbers |
|  | Advantages of using Functions | Activity - Sorting- Arranging the books |
|  | What are different Function Parameters? |  |
| December | FUN WITH FUNCTIONS | Activty- To calculate the area of a |
| No.of working days-24 | Can Function return a value? |  |
|  | What is an event? | Activity- Return Values from Functions |
|  | What are Event Handlers? |  |
|  | UNDERSTANDING ARRAYS \& COLLECTIONS | Example 1: Is 36 a perfect square? |
|  | What arte collections? <br> What are arrays? | Activity - Algorithm for a perfect square |
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| January | UNDERSTANDING ARRAYS \& COLLECTIONS | Activity - To create an array and calculate its length |
| No.of working days-13 | How can we iterate over collections? |  |
|  | Modifying Collections | Activity- To print the first element of Array |
|  | Adding Elements During Iteration | Activity - To calculate the sum of elements in an array |
|  | Removing Elements During Iteration |  |
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| February | Submission and assessment of the projects |  |
| No.of working days-22 |  |  |  |
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| Note: The students will be assessed on the basis of the classroom performance, task assigned as Home Assignments / Holiday Homework / Project. |  |  |

