

Vivekanand School - MICRO PLANNER (2024-25)							
Month Class 6	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
May	1	Led Blinking	Led Blinking	Ablox	Electronics and Logical Thinking	1. Students will learn how to design a simple circuit that includes an LED, a switch, and appropriate resistors. 2. Students will be introduced to block-based programming environments compatible with Arduino.	NA
	2	Project-Control 3 LEDs	Traffic Light	Ablox	Electronics and Logical Thinking	1. Students will be able to design, build, and troubleshoot a simple traffic light circuit using LEDs, resistors, and a control mechanism (e.g., push buttons or timers).	NA
	3	led control with switch	switch control led	Ablox	Electronics and Logical Thinking	1. Students will be able to design, build, and troubleshoot a simple LED control circuit using switches to turn the LEDs on and off. 2. Students will understand the concept of input (switch) and output (LED) devices within a circuit, and how the state of the switch affects the behavior of the LEDs.	NA
	4	Kreativity Show					
	5	SUMMER CAMP					

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Month Class 7	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
May	1	Project - Practical geometry	Geometrical artwork	Python idle	Logical and Computational Thinking	Learn how mathematical concepts like angles and circles can be applied in programming.	NA
	2	Introduction to Arduino and IDE	Introduction to Arduino	Arduino Uno Tinkering Kit	Electronics and Creativity	Understand what Arduino is and its role in DIY electronics, robotics, and IoT (Internet of Things).	NA
	3	Project-Light	Led Chorus	Arduino Uno Tinkering Kit	Electronics and Creativity	1. Learn how to connect LEDs and resistors on a breadboard. 2. Learn about digital output and the delay() function to manage timing.	NA
	4	PTM SHOWCASE					
	5	SUMMER CAMP					

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Month Class 8	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
May	1	Project Good Night Animation - 1	Good Night Animation - 1	Python Programming Language	Logical and Computational Thinking	Understand how to structure a program using functions to simplify the process of drawing complex shapes.	NA
	2	Project Good Night Animation - 2	Good Night Animation - 2	Python Programming Language	Logical and Computational Thinking	1. Learn how to combine these shapes to create a more complex "Good Night" scene. 2. Understand how to change the Turtle's attributes like its shape, color, and pen attributes.	NA
	3	Introduction to LCD	Introduction to LCD	Arduino Tinkering Kit	Engineering & Technological Skill	1. Gain basic knowledge about LCD displays, particularly character LCDs commonly used with Arduino. 2. Learn how to initialize the LCD and write code to display text.	NA
	4	PTM SHOWCASE					
	5	SUMMER CAMP					

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Month Class 9	Sessions	Topic	Activity	Kits	Skills	Learning Outcome	Teacher Manual
May	1	Range	Range	Python and Jupyter Notebook	Analytical and Mathematical	1. Range, variance, and standard deviation. 2. Calculation of variance and standard deviation. 3. Introduction to Matplotlib's histogram for data representation.	NA
	2	Bar graph-Project	Bar graph	Python and Jupyter Notebook	Analytical and Mathematical	1. Learn the difference between bar graphs and other chart types like histograms and line graphs. 2. Identify and understand the key components of a bar graph, including the title, axis labels, bars, and scales.	NA
	3	Histogram - Project	Histogram	Python and Jupyter Notebook	Analytical and Mathematical	1. Grasp the basic concept and purpose of a histogram in data representation. 2. Develop skills to interpret histograms, understanding how they display data distribution, central tendency, and variability.	NA
	4	Pie chart - Project	Pie chart	Python and Jupyter Notebook	Analytical and Mathematical	1. Learn about the suitability of pie charts for different types of data. 2. Learn the steps involved in creating a pie chart, from data selection to plotting.	NA
	4	ALL Graph - Project	All graphs for same data	Python and Jupyter Notebook	Analytical and Mathematical	1. Learn about the Development of All charts for Same value of data. 2. Learn the steps involved in creating Charts, from data selection.	NA