



STEM Curriculum MicroPlanner, Grade 1

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
June	1	Pinwheel	Early Simple Machine(Robotics)	
July	4	See-saw	Early Simple Machine	
		Spinning top	Early Simple Machine	
		Car launcher	Early Simple Machine	
		Animal world	Hands-on Science	
August	4	Raft	Early Simple Machine	
		Measuring car	Early Simple Machine	
		Bridge to cross the river	Early Simple Machine	
		My Senses	Hands-on Science	
September	2	Pet dog	Robotics	
		Our body	Hands-on Science	



STEM Curriculum MicroPlanner, Grade 2

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
June	1	Top Spinner	Early Simple Machine(Robotics)	
July	4	Scare Crow	Early Simple Machine(Robotics)	
		Swing	Early Simple Machine(Robotics)	
		Ice Hockey Player	Early Simple Machine(Robotics)	
		Tube well	Hands-on Science	
August	4	Dogbot	Early Simple Machine(Robotics)	
		The Goalkeeper	Early Simple Machine(Robotics)	
		Play with circuits	Paper Circuit	
		Hanging a bulb	Paper Circuit	
September	2	Shining Star	Paper Circuit	
		Glowing Heart	Paper Circuit	
		Water cycle	Hands-on Science	
October				
		Water filtration	Hands-on Science	

STEM Curriculum MicroPlanner (3-10)

Grade	Section	Projects	Sessions/weeks
3	A	Led and Buzzer Circuit with Breadboard	3
		RGB Light	
	B	Glow a bridge	3
		Traffic light using paper circuit	
	C	Shining Star	3
		Glowing Hearth	
4	A	Melody generator	3
		Electric Lift	
	B	Smart street light	3
		LED Chaser	
	C	4 wheel drive car	3
		Series Connection and parallel Connect of LEDs	
5	A	Door Bell Circuit with ir sensor	3
		Rechargeable table fan	
	B	Touch sensor with buzzer	3
		Laser Light Security System	
	C	Sweeper Robot using mechanzo	3
		Automatic fan using Mechanzo	
6	A	Flame detector with security system.	4
		Water level indicator	
	B	Dancing led with 15 effects	4
		Moisture detector	
	C	Smoke detector Alarm	4
		Gesture Control LEDs	
		Object avoidance robot	4

7	A	Automatic door using servo motor	4
	B	Tesla Coil	4
		Distance measuring using ultrasonic sensor	
	C	AQI detector System	4
		Dice using 7 segment display.	
8	A	Car Parking System	4
		Ball Balance System	
	B	Smart Dustbin with IoT	4
		Solar tracking system using arduino	
	C	Smart Water Dispenser	4
		Autonomous Robot using ir sensor	
	D	Line follower robot	4
		Automatic toll gate	
9	A	RFID Door lock system	4
		Edge detector robot (zig zag path)	
	B	Fire Protection system with arduino	4
		Bluetooth Table Lamp	
	C	Radar System	4
		Arduino based automatic water tab	
	D	Smart soap dispensor	4
		Crane Model	
10	A	Automatic Bulb using Motion Detector	Zero Periods
		Double clap control lamp	
	B	Rain Alert IoT	Zero Periods
		Keypad locking system with Arduino	
	C	Voice controlled Lamp	Zero Periods
		Voice controlled Robot	
Note: During execution, we may change a few projects to achieve the best results.			