

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	Early Simple Machine	
		World of shapes	Hands-on Science	
October	4	Making Fan	Early Simple Machine	
		Player	Early Simple Machine	
		Filter the water	Hands-on Science	
		Mixing with water	Hands-on Science	

November	3	Fruits and vegetables	Hands-on Science	
		Introduction to Coding and Jr Scratch	Jr Scratch	
		Motion block	Jr Scratch	
December	3	Dance Party	Jr Scratch	
		Under the sea	Jr Scratch	
		Parts of body	Hands-on Science	
January	4	Outer space	Jr Scratch	
		Animal House	Jr Scratch	
		Theme based class	Jr Scratch	
		Force	Hands-on Science	
Feburary	3	Revision		
		Revision		
		Revision		



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)	
		Musical Instruments	Jr Scratch	
		Play with the ball	Jr Scratch	
September	2	Animated card	Jr Scratch	
		Water cycle	Hands-on Science	
October	4	Haunted house	Jr Scratch	
		Look both ways	Jr Scratch	
		Race to the Finish	Jr Scratch	
		Water filtration	Hands-on Science	

November	3	Show and hide	Jr Scratch	
		Gymnast Penguin	Jr Scratch	
		Luminus and non luminus objects	Hands-on Science	
December	3	Introduction to paper circuit	Paper Circuit	
		Hanging a Bulb	Paper Circuit	
		Shining Star	Paper Circuit	
January	4	Glowing Heart	Paper Circuit	
		Blushing Girl	Paper Circuit	
		Type of rock and it's monuments	Hands-on Science	
		Magnetic and non magnetic materials	Hands-on Science	
Feburary	3	Revision		
		Revision		
		Revision		



STEM Curriculum MicroPlanner, Grade 2

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
August	4	Algorithm and Flowchart	Scratch	
		Scratch Introduction	Scratch	
		Costume	Scratch	
		Create your own character	Scratch	
September	2	Animation in scratch	Scratch	
		Measurement	Hands-on Science	
October	4	Final Project	Scratch	
		Importance of machine	MechanzO	
		Mechanzo	MechanzO	
		Plant and Fairy	Hands-on Science	
November	3	First simple machine ramp	MechanzO	
		First simple machine ramp	MechanzO	
		Projects	MechanzO	



STEM Curriculum MicroPlanner- Class 4

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
August	4	LED Blinking	A-BLox	
		LED Chaser	A-BLox	
		Display Dynamic Name on LCD	A-BLox	
		Evaporation	Hands-on Science	
September	2	Wheel & Axle	Robotics	
		Inclined Plane	Robotics	
October	4	Pulley	Robotics	
		Hitter Bot	Robotics	
		Project	Robotics	
		Formation of day and night	Hands-on Science	



STEM Curriculum MicroPlanner- Class 5

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
August	4	Led pattern	A-BLox	
		RGB Led	A-BLox	Science Fest
		Led strip	A-BLox	
		Dot matrix	A-BLox	
September	2	Gripper	Robotics	
		Curd Mixer	Robotics	
October	4	Car Bot	Robotics	
		Package Mover Bot	Robotics	
		Golf Bot	Robotics	
		Digestive System Quiz	Hands-on Science	
November	3	Final Projects	Robotics	



STEM Curriculum MicroPlanner- Class 6

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
August	3	Glowing LED with switch	A-BLox (Circuit Designing)	
		Door Bell Circuit	A-BLox (Circuit Designing)	
		LED Fading	A-BLox (Circuit Designing)	
September	2	Servo Interfacing	A-BLox (Circuit Designing)	
		My measuring kit	Hands-on Science	
October	4	4WD Car	Robotics	
		Mopping Robot	Robotics	
		Speed adjusted car with gear	Robotics	
		Reflection of light	Hands-on Science	
November	3	Car Race	Robotics	
		App inventor	MIT	
		Ball & Socket Joint	Hands-on Science	
December	3	Website viewer	MIT	
		Sound App	MIT	
		Final Project	MIT	

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
August	3	Introduction to Python and its installation	Python Idle	
		Lines and angles	Python Idle	
		Practical geometry	Python Idle	
September	2	Practical geometry	Python Idle	
		Acid, base and salt	Hands-on Science	
October	4	Practical geometry	Python Idle	
		Mathematics	Python Idle	
		Programming	Python Idle	
November	3	Project	Python Idle	
		Introduction to Arduino and IDE	Arduino	
		Human Respiratory System	Hands-on Science	
December	3	Electric current and its effects	Arduino Uno Tinkering Kit	
		Light	Arduino Uno Tinkering Kit	
		Control statement	Arduino Uno Tinkering Kit	

January	4	Introduction to Robotics and mechanzo	Arduino Uno Tinkering Kit	
		Types of movements	Arduino Uno Tinkering Kit	
		Motion and Time	Arduino Uno Tinkering Kit	
		Theme based challenge	Arduino Uno Tinkering Kit	
Feburary	3	tinkercad	Tinkercad	
		Keychain Design	Tinkercad	
		Nut Design	Tinkercad	



STEM Curriculum MicroPlanner- Class 8

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
August	3	Python Introduction (Variables)	Python Programming Language	
		Python operators & functions	Python Programming Language	
		Python turtle	Python Programming Language	
September	2	Python project (Calculator)	Python Programming Language	
		Python project (Calculator)	Python Programming Language	
October	4	Button widget	Python Programming Language	
		Callback function	Python Programming Language	
		Entry widget	Python Programming Language	
		Final Project	Python Programming Language	
November	3	Introduction to Arduino IDE	Arduino Tinkering Kit	
		Ultrasonic sensor	Arduino Tinkering Kit	
		Distance Display	Arduino Tinkering Kit	
December	3	Introduction to LCD	Arduino Tinkering Kit	
		Code for LCD	Arduino Tinkering Kit	
		Laws of reflection	Hands-on Science	



STEM Curriculum MicroPlanner- Class 9

Month	Number of Sessions	Name of Activity	Subject	Extra Activities
August	4	Python	Python	
		Introduction to pandas	Python	
		List	Python	
		Dictornaries	Python	
September	2	DataFrame	Python	
		Analyzing Data	Python	
October	4	Basic Operations	Python	
		Mean Median Mode	Python	
		Final Project	Python	
November	3	Introduction to Robotics and Designing	Robotics Tinkering Kit	
		Speed controlled robot	Robotics Tinkering Kit	
		Obstacle avoider robot	Robotics Tinkering Kit	
		Drag and drop bot	Robotics Tinkering Kit	
December	3	Drag and drop bot	Robotics Tinkering Kit	