

MICHIGAN VALLEY EDUCATION SYLLABUS FOR GROUP 3 (CLASS 8 AND 9)

MICHIGAN VALLEY EDUCATION SYLLABUS FOR GROUP 3 (CLASS 8 AND 9)					
		Class 8	Class 9	Name of Activity	
Week	Subjects	Chapters	Chapters	Core	Associative
1	Science	Crop production and Management	Improvement in food Resources	Earth seasons, How rain happens, Ecosphere	Observe seed sowing
	Mathematics	Rational Numbers	Number systems	Concept Map + origami Model + Practice sheet	
	Computer	Hardware and Programming		Scratch and Python	
2	Science	Crop production and Management	Improvement in food Resources	Earth seasons, How rain happens, Ecosphere	Observe seed sowing
	Mathematics	Rational Numbers	Number systems	Concept Map + origami Model + Practice sheet	
	Computer	Hardware and Programming		Scratch and Python	
3	Science	Micro-organism Friend and Foe	How do we fall ill	Microscopic world, Movie, parasite	
	Mathematics	Linear Equations with one variables	Linear equations with two variables	Concept Mapping, Balance Model	
	Computer	Hardware and Programming		Binary Key Board	
4	Science	Micro-organism Friend and Foe	How do we fall ill	Microscopic world, Movie, parasite	
	Mathematics	Linear Equations with one variables	Linear equations with two variables	Concept Mapping, Balance Model	
	Computer	Hardware and Programming		Binary Key Board	
5	Science	Synthetic fibres and plastics		Synthetic polymers	Making of plastic
	Mathematics	Understanding quadrilaterals	Quadrilaterals	Experimenting on Quadrilateral Boards	
	Computer	Hardware and Programming		Mouse	
6	Science		Atoms and Molecules	Models of atomic structures	Balancing equation models, orbits in Atom.
	Mathematics	Understanding quadrilaterals	Quadrilaterals	Experimenting on Quadrilateral Boards	
	Computer	Hardware and Programming		Mouse making	
7	Science	Materials- Metals and Non Metals		Sampling and identifying with periodic table	Model periodic table
	Mathematics	Practical Geometry	Construction	Origami Models and practice sheets	
	Computer	Hardware and Programming		Logic Gate	
8	Science	Materials- Metals and Non Metals		Sampling and identifying with periodic table	Model periodic table
	Mathematics	Practicle Geometry	Construction	Origami Models and Practice sheets	
	Computer	Hardware and Programming		Logic Gate	
9	Science	Coal and Petroleum		Model of carbon cycle, carbon and its allotropes, Model making by thermocol balls	Soap Making
	Mathematics	Data Handling	Statistics	Concept Maps , Activity Sheets	
	Computer	Hardware and Programming			

10	Science	Coal and Petroleum		Model of carbon cycle, carbon and its allotropes, Model making by thermocol balls	Soap Making
	Mathematics	Data Handling	Statistics	Concept maps, Activity sheets	
	Computer	Hardware and Programming		Computer memory	
11	Science	Combustion and Flame	Matters in our Surroundings	Model making of flames	Gas that explodes and oxygen collection
	Mathematics	Squares and Square roots		Concept Maps and activity sheets	
	Computer	Hardware and Programming		Computer memory	
12	Science	Combustion and Flame	Matters in our Surroundings	Model making of flames	Gas that explodes and oxygen collection
	Mathematics	Squares and Square roots		Concept maps and activity sheets	
	Computer	Hardware and Programming		Home built Computer	
13	Science	Conservation of Plants and animals		Species identification from biodiversity, Fossil making	Google earth project
	Mathematics	Cubes and Cube Roots		Concept maps and activity sheets	
	Computer	Hardware and Programming		Home built Computer	
14	Science	Conservation of Plants and animals		Species identification from biodiversity, Fossil making	Google earth project
	Mathematics	Cubes and Cube Roots		Concept maps and activity sheets	
	Computer	Hardware and Programming		Home built Computer	
15	Science	Cell Structure and Functions	The fundamental Unit of life; Tissues	Movie, Slides (Microscopic activities)	RNA and DNA models
	Mathematics	Ratio and percentages		Concept Map and activity sheets	
	Computer	Hardware and Programming		Home built Computer	
16	Science	Cell Structure and Functions	The fundamental Unit of life; Tissues	Movie, Slides (Microscopic activities)	RNA and DNA models
	Mathematics	Ratio and Percentages		Concept Map and activity sheets	
	Computer	Hardware and Programming		Home built Computer	
17	Science		Diversity in Living Organisms	Movie, Google earth	Making Herbarium
	Mathematics	Algebraic expressions	Polynomials	Concept Map and activity sheet	
	Computer	Hardware and Programming		Scratch and Python	
18	Science	Reproduction in animals		Movie, Google earth	Making Herbarium
	Mathematics	Algebraic Expressions	Polynomials	Concept Map and activity sheet	
	Computer	Hardware and Programming		Scratch and Python	
19	Science	Reaching the age of adolscense		Movie	
	Mathematics	Solid Shapes	Surface Area and Volume	Making Models and Origami	

	Computer	Hardware and Programming		Scratch and python programming	
20	Science	Reaching the age of adolscense		Movie	
	Mathematics	Solid Shapes	Surface area and volume	Making Models and Origami	
	Computer	Hardware and Programming		Scratch and python programming	
21	Science	Force and pressure	Force and laws of motion	Pendulam, Newton's law of motion, All motion is relative	Brownian Motion
	Mathematics	Mensuration	Areas of Parallelogram and Triangles	Origami	
	Computer	Hardware and Programming		Scartch and Python programing	
22	Science	Force and Pressure	Force and laws of motion	Pendulam, Newton's law of motion, All motion is relative	Brownian Motion
	Mathematics	Mensuration	Areas of Parallelogram and Triangles	Origami	
	Computer	Hardware and Programming		Scartch and Python programing	
23	Science	Friction	Work and energy	Law of moment, center of gravity and stability, elastic collision	Calculation of work done. Understanding power of machine and force.
	Mathematics	Exponents and power		Origami, concept maps and activity sheets	
	Computer	Hardware and Programming		Scartch and Python programing	
24	Science	Friction	work and energy	Law of moment, center of gravity and stability, elastic collision	Calculation of work done. Understanding power of machine and force.
	Mathematics	Exponents and power		Origami, concept maps and activity sheets	
	Computer	Hardware and Programming		Scartch and Python programing	
25	Science	Sounds	Sounds	Electric Bell, Microphone, amplifier	Fun with sound, visual sound, sound collector, make your own flute
	Mathematics	Direct and indirect proportions		Origami, concept maps and activity sheets	
	Computer	Hardware and Programming		Scratch and python programming	
26	Science	Sound	Sounds	Electric Bell, Microphone, amplifier	Fun with sound, visual sound, sound collector, make your own flute
	Mathematics	Direct and indirect proportions		Origami, concept maps and activity sheets	
	Computer	Hardware and Programming		Scratch and python programming	
27	Science	Chemical effect of electric current		Making a bettery, making anode and cathode ; electrolysis of water	Electronics for fun
	Mathematics	Factorization		Origami, concept maps and activity sheets	
	Computer	Hardware and Programming		Scratch and Python Programming	
28	Science	Chemical effect of electric current		Making a bettery, making anode and cathode ; electrolysis of water	Electronics for fun

	Mathematics	Factorization		Origami, concept maps and activity sheets	
	Computer	Hardware and Programming		Scratch and Python Programming	
29	Science	Some Natural Phenomena- Lightning and earthquake		Model of earthquake, making of SNT waves, Faults, making model of tectonic plates, seismological observatory	Weather Station; making of clouds and rain
	Mathematics	Introduction to Graphs	Coordinate Geometry	Origami, concept maps and activity sheets	Coordinate geometry
	Computer	Hardware and Programming		Making Fax	
30	Science	Some Natural Phenomena- Lightning and earthquake		Model of earthquake, making of SNT waves, Faults, making model of tectonic plates, seismological observatory	Weather Station; making of clouds and rain
	Mathematics	Introduction to Graphs	Probability	Origami, concept maps and activity sheets	Coordinate geometry
	Computer	Hardware and Programming		Making Fax	
31	Science	Light		Projector, electronic spectrum	Cinema, Movie of X-Rays
	Mathematics		Circles	Origami	Steering mechanism
	Computer	Hardware and Programming		Telegraph	
32	Science	Light		Projector, electronic spectrum	Cinema, Movie of X-Rays
	Mathematics	Fun with Numbers	Circles	Origami	Steering mechanism
	Computer	Hardware and Programming		Telegraph	
33	Science	Stars and solar system	Gravitation	Star Projection, Astolabe, sky watching, Deflection of light in gravitational field of stars	
	Mathematics		Lines & angles	Origami	CAMs, Wall
	Computer	Hardware and Programming		Scratch and python	
34	Science	Stars and solar system	Gravitation	Star Projection, Astolabe, sky watching, Deflection of light in gravitational field of stars	
	Mathematics		Triangles	Origami	Machines and Automobiles
	Computer	Hardware and Programming		Scratch and python	
35	Science	Pollution of Air and water	Natural resources	Lab Activity	Upthrust of liquids
	Mathematics		Triangles	Origami	Machines and automobiles
	Computer	Hardware and Programming		Scratch and Python	
NOTE:					
1	Space model and sky watching intermediary				
2	Electronics model during summer and winter breaks				
3	Concepts of Mathematics practice				
4	Communication and Open house for project presentations				
5	Airplane Models Intermediary				
6	Robotic Models Intermediary				