## Academic Planner 2025-26 Class-VII SUBJECT - SCIENCE

			301	BJECT - SCIENCE				
MONTHS & DAY		Learning Outcome	ACTIVITY / EXPERIMENT	ASSIGNMENT/H.W	MODE OF ASSESMENT	INTERDISCPLINA RY ASPECT/ SUSTAINED IMPACT-SDG	21ST CENTURY SKILLS	TEACHING PEDAGOGY
APRIL 1-15	Bridge Course							
April 16 - 30 (12 days)	Chapter 1 Nutrition in plants	-distinguish between autotrophic and heterotrophic nutrition; saprophytic and	To show that plants prepare food during day time	Thinksheet of ch 1	Science Concept Cards and interactive quizzes		Information literacy, critical thinking	Field Trip, Survey based
		conclusions of activities - name the different modes of heterotrophic nutrition in plants and give examples of each type - list ways of replenishing nutrients in the soil - List the mode of feeding in different an inmals - List the steps in the process of holozoic nutrition ( in humans ) -	Science lab manual activity of Ch 1	Educosoft online assessment		SDG 2 Economics in agriculture and earth sciences		
	Chapter 2 Nutrition in animals and human		To study the effect of saliva on starch.  Science lab manual activity of Ch 2	Thinksheet of ch 2  Educosoft online assessment	Role play on parts of digestive system and exit slips	S.D.G Worksheet 3 Goal 3 SDG 2 and SDG 3	Creativity, communication, critical thinking	Demonstration method
			defined and mannan weeking of the 2	2dd oo A dinne doo on the		Social studies and different cultre with food		
MAY								
1 - 15 (11 days)	Chapter 3 Heat	-distinguish between clinical and laboratory thermometer; conductors and non conductors of heat; land and sea	To record the temperature of water using laboratory thermometer. Science lab manual activity of Ch 3	Thinksheet of ch 3  Educosoft online assessment	Concept mapping and exit slips	SDG 13 and SDG 12	Information literacy, problem solving, critical thinking	Inquiry based learning, Lecture method
		breeze -draw a clinical and laboratory thermometer -distinguish between the three modes of transmission of heat ( conduction ,convection and radiation ) -	oceane and mandan weeting of early			Maths conversion of celcius to fahrenheit scale		
		give examples of applications in daily life where heat transfer takes place by conduction ,convection and radiation						
MAY								
16-25 (8 days)		Science activity week	SCIENCE IS FUN  1. Simple DIY science experiments demostration by students 2. Science quiz					
JUNE	SUMMER VACATION		H.H.W			Art Integrated activiti	es/ project	
JULY 1- 15 (12 days)	Chapter 4 Acid,Base And Salts	-distinguish between mineral and organic acids; acids and base - list effect of	To classify the given solutions as acidic and basic using litmus solution		Experimentation and Observation and MCQ test		critical thinking, communication	Experiential Learning
		different indicators on acids and bases - define indicator, alkali, neutralisation -	Science lab manual activity of Ch 4	Educosoft online assessment		SDG 13, SDG 14 and SDG 15 Maths in		
		give examples of neutralisation ( of acids and bases ) in everyday life Distinguish between reversible and		Thinksheet of ch 5		neutralization		
16 - 31 (14 days)	Chapter 5 Physical and Chemical changes	irreversible changes; physical and chemical changes - Give examples from daily life of reversible and irreversible changes; chemical and physical changes - Observe activities based on chemical and	To study the chemical reaction between iron nail and copper sulphate solution.	Educosoft online	Experimentation and Observation and MCQ test	SDG 11 and SDG 13 History and technology used changes to create	critical thinking, reasoning	Experiential Learning
		Observe activities based on chemical and physical/ reversible and irreversible changes and draw conclusions - List ways of preventing rusting - Define rusting ,crystallisation, galvanisation	Science lab manual activity of Ch 5	assessment		new things		
	U.T 1 21 July- 26 July		Syllabus for unit test 1					

			Ch 1- Nutrition in Plants			I		
			Ch 2-Nutrition in Flants Ch 2-Nutrition in animals					
			Ch 3- Heat					
AUGUST								
100001	Chapter 6 Respiration		10.2 To Show that exhaled air contains	Thinksheet of ch 6				
1- 15 ( 11 days)	in Organisms	anaerobic respiration; breathing and	Carbon dioxide.		Model making		critical thinking, creativity	Experiential Learning
		respiration; inhalation and exhalation; respiration and photosynthesis - draw a		Educosoft online				
		well labelled diagram of the human	Science lab manual activity of Ch 6	assessment		SDG 15		
		respiratory system -demonstrate the						
		mechanism of breathing in humans						
		through a model -name the organs of						
		breathing in different animals -explain how						
		plants respire						
16 21 (12 4)	Chapter 7 Transportation in	-distinguish between RBC and WBC;	To measure pulse rate under different	Thinksheet of ch 7	Model making		onition thinking operativity	Erraniantial I comina
16-31 (12 days)	Transportation in	artery and vein ; xylem and phloem -define	conditions	Educosoft online	_		critical thinking, creativity	Experiential Learning
		capillary, blood, pulse , pulse rate, heart	Science lab manual activity of Ch 7	assessment		SDG 3		
		beat,translocation, transpiration - label the human heart -explain and draw schematic						
		diagram of blood circulation in the human						
		body -Draw a well labelled diagram of the						
		urinary system in humans -give examples						
		of solid, liquid and gaseous waste						
		generated in the human body	CLASS RECORD ASSESSMENT					
SEPTEMBER	Exam Month							
1- 15 (11 days)	Revision							
1- 13 (11 days)	Revision							
	HALF YEARLY							
	EXAMS 15 Sept- 26							
16 - 30 (12 days)	Sept		SYLLABUS OF HALF YEARLY					
			Chapter 1 - Nutrition in plants					
			beings					
			Chapter 3 - Heat					
			Chapter 4 - Acid, Base And Salts					
			Chapter 5 - Physical and Chemical changes					
			Chapter6 - Respiration in organisms					
			Chapter 7- Transportation in Animals and					
			Plants					
OCTOBER								
	Reproduction in		To grow a new plant through vegetative	Thinksheet of ch 8	Assessment of diagramatic			Field trip, cooperative and
1- 15 (08 days)	Plants	-distinguish between asexual and sexual	propagation		skills		critical thinking, communication	collabrative learning
		reproduction; unisexual and bisexual flowers - explain the different modes of						
		asexual reproduction in plants and with	Science lab manual activity of Ch 8	Educosoft Online Assessment		SDG 15		
		examples -draw well diagrams of budding						
		in yeast, binary fission in bacteria, male						
		and female reproductive organs of a						
		flower -explain different methods of						
	Chanter 9 Metion and	vegetative propagation with examples	To find the time newled of a sinus!	Thinksheet of ch 9				Evansiontial learning
16 - 31 (10 days)	Chapter 9 Motion and time		To find the time period of a simple pendulum	i minksneet of cn 9	Data analysis			Experiential learning, demonstration method
10 - 01 (10 uays)			penduluii	Educosoft Online	z ma anaryon			acmonstration method
			Science lab manual activity of Ch 9	Assessment		SDG 11		
	_					Maths- graphs for D-	r	
						iviatus- grapus ioi D-		
NOVEMBER				m: 1 1 4 0 2 40				
	Chapter 10 Electric	-draw some electrical symbols; closed and		Thinksheet of ch 10				Demnstration method, Lecture
1- 15 (11 days)		open circuits using symbols; an electric bell -distinguish between closed and open	To show the heating effect of current		MCQ test		critical thinking, reasoning	method
- 15 (11 uays)	carrent and its Effects	_och distinguish octween closed and open	20 Show the neuting effect of entrent	L		l	errical timiking, reasoning	memou

		<b>-</b>						
		circuit - explain the heating , magnetic				Uses of electricity in		
		effects of electric current -give examples		Educosoft Online		technology to create		
		of the applications of heating effect of	Science lab manual activity of Ch 10	Assessment	SDG 11 and SDG 12	gadgets		
		electric current from daily life( electric						
		bulb ,electric fuse etc ) - give an example						
		of magnetic effect of electric current (						
		electromagnets ) in the working of an						
		electric bell -list the uses of						
		electromagnets in daily life						
		Distinguish between parallel, convergent		Thinksheet of ch 11				
		and divergent beam of light; plane,	To show that sunlght is a combination of	Thinksheet of chi 11	Experimentation and			Experiential Learning,
16 - 30 (12 days)	Chapter 11 Light	concave and convex mirrors; concave and	seven colors		Observation, Model making		critical thinking	demonstraton method
Ì		convex lens; real and virtual images; -draw		Educosoft Online	•	Technology		
		a diagram to explain that light travels in a	Science lab manual activity of Ch 11	Assessment		integration in		
		straight line -draw diagrams of- parallel,						
		convergent, divergent beam of light;						
		concave and convex mirrors and lenses -						
1		give examples the uses of plane mirrors,						
1								
1		concave and convex mirrors and lenses in						
1		daily life -list the type of images formed by						
ĺ		plane, concave, convex mirrors; concave						
ĺ		and convex lenses -explain how dispersion						
		of light results in the formation of a						
DECEMBER								
	U.T 2 8 Dec-15 Dec							
	Syllabus for unit test 2		Ch 8- Reproduction in Plants					
			Ch 9- Motion and Time					
			Ch 10- Electric current and its effects					
	Chapter 12 Forest Our	- List the importance of forests -		Educosoft Online		WORKSHEET 13		
1- 15 (12 days)	Lifeline	distinguish between - herbs ,shrubs and		Assessment	Think, pair and share	GOAL 15	critical thinking	Collaborative learning
1- 13 (12 days)	Entine	trees ;producers ,consumers and		rissessment	Timik, pan and share	GOVIE 13	Critical thinking	Connociative Ruining
		decomposers - name in the layers forests -						
		draw simple food chains - explain the	Science lab manual activity of Ch 12	Thinksheet of ch 12				
		interdependence of plants and animal	Science and manual activity of Cit 12	Timiksheet of ch 12		ana		
16 21 (12 1	Chapter 12	interdependence of plants and alimital				SDG 6, 11 , 7 and 13 S.D.G		
	Chapter 12					S.D.G		
JANUARY								
1-15			WINTER BREAK					
	Chapter 13	1			ļ	SDC	oritical thinking as llaboration	
16 21 (12 1		-draw some electrical symbols ; closed and		Thinksheet of ch 13	Think aris at 1.1	S.D.G	critical thinking, collaborative	Gallaha sadisa la
16-31 (13 days)	Wastewater Story	open circuits using symbols; an electric		Ed & O. "	Think, pair and share	WORKSHEET 6	learning	Collaborative learning
ĺ		bell -distinguish between closed and open	0 1 1 1 1 1 1 1 1 1 1 1 1	Educosoft Online		lana		
		circuit - explain the heating , magnetic	Science lab manual activity of Ch 13	Assessment	ļ	SDG 6, and 11 Social studies- role of		
1		effects of electric current -give examples				govt in sanitation		
<u> </u>	<del>                                     </del>	of the applications of heating effect of		1	<del> </del>	50 tt in suntation		<u> </u>
1		electric current from daily life( electric						
ĺ		bulb ,electric fuse etc ) - give an example						
1		of magnetic effect of electric current (						
1		electromagnets ) in the working of an						
ĺ		electric bell -list the uses of						
		electromagnets in daily life						
FEBRUARY								
				Educosoft Online				
1- 15 (11 days)				Assessment				
	REVISION OF							
ĺ	ANNUAL EXAM							
			CLASS RECORD ASSESSMENT					
			CLAIGO RECORD AGSESSIVIENT					
	ANNUAL EXAM		Dates to be announced later					
16 - 28( 12 days)								

Annual Exam Syllabus	Ch 4- Acids, bases and salts			
	Ch 5- Physical and chemical changes			
	Ch 8- Reproduction in plants			
	Ch 9- Motion and time			
	Ch 10- Electric current and its effects			
	Ch 11- Light			
	Ch 12- Forest our lifeline			
	Ch 13- Wastewater story			
MARCH				

1-31 (25 days)