

ACADEMIC PLANNER 2026-27 GRADE 7 SCIENCE - CURIOSITY (NCERT)

Month /Days	Content	CW/HW/Assignment	Activity/Interdisciplinary	Learning Outcomes
APRIL 1-4	Bridge activities	Bridge course	Day 1- Activity1: To observe rectilinear motion of light usingf matchbox, cardboard and torch Day 2- Activity 2- To observe reflection of light using mirror and torch Day 3- Activity 3- To check variation in size of shadow with an object.	Observe and describe simple scientific phenomena. Conduct simple observations and record findings. Construct simple experiments or models to show how light behaves
APRIL	The ever evolving world of science	Keyterms, TBQ's	Write 5 curious questions from daily life	Develop curiosity and questioning skills
(1-15)		Diagrams	Biology -Connects plant and animal growth with human life stages	Recognise role of science in solving real-life problems
11 days		Worksheets of ch 1		Demonstrate understanding of scientific approach
APRIL	Exploring substances- Acidic, Basic and neutral	Keyterms, TBQ's	Testing nature of samples with blue and red litmis papers	Classify substances as acidic, basic or neutral
(16-30)		Diagrams	Relates food habits to culture and society .	Identify properties of acids and bases
13 days		Worksheets of ch 2		Understand working of natural indicators
				Recognise turmeric as a basic indicator
MAY	Electricity-Circuits and their componenets	Keyterms, TBQ's	Identifying conductors and insulators using a tester	Identify components of a simple electrical circuit

(1-15)		Diagrams	Mathematics: Measurement of current, counting cells, circuit diagrams.	Explain the concept of a closed and open circuit.
6 days		Worksheets of ch 3		Differentiate between incandescent lamp and LED.
				Apply the concept of circuits to troubleshoot simple faults.
MAY	Summer vacations			
(16-22)				
JUNE	Summer	Vacations	H.H.W	
JULY	The world of metals and non metals	Keyterms, TBQ's	Study effect of air and water on other metals	Recall properties such as malleability, ductility, sonority, conductivity, corrosion, and rusting.
(1-15)		Diagrams	History: Use of metals in ancient civilizations	Differentiate between metals and non-metals based on physical and chemical properties.
12 days		Worksheets of ch 4		Predict the nature (acidic/basic) of oxides formed by metals and non-metals.
				Examine how properties of materials determine their practical applications.
JULY	Revision for U.T 1 and chapter 4			
(16-31)				
14 days				
UNIT TEST 1 (20 JULY- 25 JULY) SYLLABUS- CH 1, 2, 3				
AUGUST	Changes around us- Physical and	Keyterms, TBQ's	Chemical change of vinegar with lemon juice	State the conditions required for combustion
(1-15)		Diagrams	Geography: Natural resources and environmental balance.	Explain reversible and irreversible changes with suitable examples.
11 days		Worksheets of ch 5		Classify given changes as physical or chemical.
				Examine natural processes like weathering and erosion and categorise them.

AUGUST	Adolescence: A stage of growth and	Keyterms, TBQ's	Psychology: Emotional and behavioural development.	List physical, emotional, and behavioural changes during adolescence.
(16-30)		Diagrams	Physical Education: Fitness, hygiene, and body care.	Explain the role of hormones in controlling adolescent changes.
11 days		Worksheets of ch 6		Practice responsible behaviour in social and digital interactions.
				Distinguish between myths and scientific facts related to menstruation.
SEPTEMBER	EXAM MONTH			
(1-15)	REVISION			
11 days				
SEPTEMBER	HALF YEARLY EXAM	SYLLABUS OF HALF YEARLY EXAM	CH 1,2,3,4,5,6	
(16-30)	(14 Sept to 28 Sept)			
13 days				
OCTOBER	Heat transfer in nature	Keyterms, TBQ's	To understand why smoke rises up	Define conduction, convection, and radiation.
(1-15)		Diagrams		Describe formation of sea breeze and land breeze.
11 days		Worksheets of ch 7		Classify daily life examples under conduction, convection, or radiation.
				Analyse experimental observations related to heat transfer.
OCTOBER	Measurement of time and motion	Keyterms, TBQ's	To calculate time period of a simple pendulum	List ancient and modern time-measuring devices.
(16-31)		Diagrams	History -shadow clocks, water clocks	Explain how a simple pendulum works.
09 days		Worksheets of ch 8		Calculate speed using given distance and time.
				Distinguish between fast and slow motion using speed.

NOVEM	Life Processes in Anir	Keyterms, TBQ's	Action of saliva on starch	Define digestion, respiration, absorption, and egestion.
(1-15)		Diagrams	Physical Education -Importance of breathing exercises	Describe the role of saliva, stomach, liver, and pancreas.
9 days		Worksheets of ch 9		Demonstrate experiments showing action of saliva or carbon dioxide in exhaled air.
				Analyse the difference between breathing and respiration.
NOVEM	Life Processes in Plan	Keyterms, TBQ's	To check photosynthesis in a potted plant	Recall the parts of a plant involved in nutrition, respiration, and transpiration.
(16-30)		Diagrams	Mathematics: Measuring plant height, tabulating observations, data analysis.	Explain the process of photosynthesis and its importance.
12 days		Worksheets of ch 10		Illustrate and label the process of photosynthesis and transpiration.
				Justify the importance of plants in maintaining ecological balance.
DECEMBER	REVISION FOR U.T 2 EXAMS			
(1-15)				
12 days				
UNIT TEST 2 (7 DEC-14 DEC) SYLLABUS CHAPTERS- 7,8,9				
DECEMBER	Light: Shadows and Reflection	Keyterms, TBQ's	To design a pinhole camera	Define reflection, mirror, shadow, and image.
(16-31)		Diagrams	Mathematics: Geometry of straight lines, angles in reflection.	Explain the formation of shadows and reflection of light.
13 days		Worksheets of ch 12		Draw ray diagrams to show reflection from a plane mirror.

				Differentiate between real and virtual images; compare shadow and image
JANUAR	Earth, Moon and the sun			Recall the phases of the Moon and the causes of eclipses.
(1-15)				
5 days				
JANUAR	Earth, Moon and the	Keyterms, TBQ's	History -Ancient sky observation practices.	Explain the rotation and revolution of the Earth.
(16-31)		Diagrams	Civics -Cosmos installation in Parliament	Illustrate the phases of the Moon and positions during eclipses.
12 days		Worksheets of ch 11		Differentiate between solar and lunar eclipses.
FEBRU	Annual exam revision	Syllabus	Chapters- 4,5,7,8,9,10,11,12	
(1-15)				
11 days				
FEBRU	ANNUAL EXAMS			
(16-28)				
MARCH	ANNUAL EXAMS			
(1-31)				