CLASS 8 SCIENCE (Curiosity)— CG's Aligned Monthly Split-up Syllabus (April 2026–March 2027) + Portion Boundaries + Exams
(For CM SoE)
Developed by:- JCERT (Curriculum Division)

Month	Teaching Days (Available)	NCERT Chapter Titles	Sub-topics / Portion Boundary	CGs (*CG Mapping - IDs) (NCF 2023)	Practicals / Activities (Minimum)	Assessment / Exams
Apr-26	23	Chapter 1-Exploring the Investigative World of Science / Chapter 2- The Invisible Living World: Beyond Our Naked Eye	Exploring the Investigative World of Science. / What is a Cell?, What are the Levels of Organisation in the body of a living organism?, What are Microorganisms?, How are we connected to Microbes?, Why is Cell considered to be a Basic Unit of Life?	CG-5.1,CG-5.2,CG-6.1,CG-7.2,CG-8.1,CG-9.1,CG-9.2 / CG-3.1, CG-3.2, CG-3.3, CG-3.4, CG-5.1, CG-6.2, CG-7.2, CG-7.3, CG-8.1, CG-9.1, CG-9.2	1. Diagram of Plant Cell and Animal Cell. 2. Recycling of Nutrients (Activity 2.7 of Textbook).	April portion will be tested in Project RAIL on 04-05-2026 .
May 2026	14	Chapter 3- Health: The Ultimate Treasure	Health: Is it More than not falling sick?, How can we stay healthy, How do we know that we are unwell?, Diseases: What are the causes and Types?, How to Prevent and Control Diseases?	CG-4.1, CG-4.2, CG-4.3, CG-4.4, CG-5.1, CG-6.2, CG-8.1, CG-9.1, CG-9.2	1. Project on some communicable diseases affecting humans (Table 3.1 of Textbook) 2.Project on some non-communicable diseases affecting humans (Table 3.2 of Textbook)	May portion will be tested in Project RAIL on 15-06-2026 .
Jun 2026	12	Chapter 4 - Electricity: Magnetic and Heating Effects	Does an electric current have a magnetic effect?, Does a current carrying wire get hot?, How does a battery generate electricity?	CG-2.2, CG-2.3, CG-5.1, CG-5.2, CG-6.1, CG-7.1, CG-7.2, CG-7.3, CG-8.1, CG-9.1, CG-9.2	1. Heating effect in a wire (Activity 4.5 of Textbook). 2. Dry Cell and its internal structure.	June portion will be tested in Project RAIL on 06-07-2026 .
Jul 2026	14	Chapter 5- Exploring Forces	What is a Force?, What can a Force do to the bodies on which it is applied?, Are Forces an Interaction between two or more objects?,What are the different types of Forces?, Weight and its Measurement, Floating and Sinking.	CG-2.1, CG-5.1, CG-6.1, CG-6.2, CG-7.1, CG-7.3, CG-8.1, CG-9.1, CG-9.2	1.Balloons Experiment(Activity 5.7 of Textbook). 2. Floating and Sinking (Activity 5.13 of Text book)	July portion will be tested in Project RAIL on 03-08-2026 .

Aug 2026	**12**	**Chapter 6- Pressure, Winds, Storms, and Cyclones**	**Pressure, Pressure exerted by Air, Formation of Wind, High-Speed Winds result in lowering of Air Pressure, Storms, Thunderstorms, and Lightning, Cyclone.**	**CG-1.3, CG-1.4, CG-5.1, CG-5.2, CG-6.2, CG-7.1, CG-7.2, CG-7.3, CG-8.1, CG-9.1, CG-9.2**	**1. Liquid exerts pressure (Activity 6.2 of Textbook) 2.Blowing between two balloons (Activity 6.2 of Textbook).**	April to August will be assessed in Half Yearly Exam (07-09-2026 to 12-09-2026)
Sep 2026	**23**	**Revision of Previously taught Chapters Chapter 7- Particulate Nature of Matter**	**What is Matter Composed of ?, What decides different States of Matter?, How Does the Interparticle Spacing differ in the three states of Matter?, How Particles move in different states of Matter?,**	**CG-1.1, CG-1.2, CG-1.3, CG-5.1, CG-5.2, CG-6.1, CG-6.2, CG-7.3, CG-8.1, CG-9.1, CG-9.2**	**1. Dissolving sugar in water (Activity 7.2 of Textbook). 2. Syringe experiment (Activity 7.6 of Textbook).**	Half Yearly Exam: 07-09-2026 to 12-09-2026 (covers Apr–Aug).
Oct 2026	**22**	**Chapter 8- Nature of Matter: Elements, Compounds, and Mixtures. / Chapter 9- The Amazing World of Solutes, Solvents, and Solutions**	**What are Mixtures?,What are Pure Substances?, What are the types of Pure Substances, How do we use Elements, Compounds and Mixtures?,What are Minerals ? / What are Solute, Solvent and Solution?, How much Solute can a fixed amount of Solvent Dissolve?,Solubility of Gases, Why do objects float or sink in Water?, What is Density?**	**CG-1.1, CG-1.2, CG-1.3, CG-5.1, CG-5.2, CG-6.1, CG-6.2, CG-7.3, CG-8.1, CG-9.1, CG-9.2 / CG-1.1, CG-1.2, CG-1.3, CG-5.1, CG-5.2, CG-6.1, CG-6.2, CG-7.3, CG-8.1, CG-9.1, CG-9.2**	**1. Heating Sugar Experiment (Activity 8.4 of Textbook). 2. Determining Volume of Solid Objects (Activity 9.6 of Textbook).**	September and October portion will be tested in Project RAIL on 02-11-2026.
Nov 2026	**14**	**Chapter 10- Light: Mirrors and Lenses**	**What are Spherical Mirrors?, What are the Characteristics of Images formed by Spherical Mirrors?, What are the Laws of Reflection?,What is a Lens?**	**CG-2.4, CG-5.1, CG-5.2, CG-6.1, CG-6.2, CG-7.1, CG-7.3,CG-8.1, CG-9.1, CG-9.2**	**1. Beam of Light on a mirror (Activity 10.4 of Textbook). 2.Converging sunlight on Convex Lens(Activity 10.11 of Textbook)**	November portion will be tested in Project RAIL on 07-12-2026.

Dec 2026	**21**	**Chapter 11- Keeping Time with the Skies/ Chapter 12- How Nature Works in Harmony (Part-1)**	**How does the Moon's Appearance Change and Why?, How did Calendars come into existence?, Are Festivals related to astronomical Phenomena?, Why do we launch Artificial Satellites in Space? / How do we experience and interpret our surroundings?, Who all live together in Nature?, Does every organism in a community matter?, what are the different types of interactions**	**CG-2.5, CG-5.1, CG-5.2, CG-6.1, CG-6.2, CG-7.1, CG-7.2,CG-8.1, CG-9.1, CG-9.2 /CG-3.1, CG-3.2, CG-3.3, CG-3.4,**	**1. Different Phases of Moon (Figure 11.5 of Textbook). 2. Interaction of Biotic and Abiotic components (Activity 12.4 of Textbook).**	December portion will be tested in Project RAIL on 11-01-2027.
Jan 2027	**18**	**Chapter 12- How Nature Works in Harmony (Part-2)/ Chapter 13- Our Home: Earth, a Unique Life Sustaining Planet**	**What happens to waste in nature?, How does one change lead to another?, How do interactions maintain balance in ecosystems?, What are the benefits of an Ecosystem. / Why is Earth a Unique Planet?, What do the Planets of our Solar System Look like?,What makes the Earth suitable for Life to Exist?, What allows Life to be sustained on Earth?, What Keeps Life from Disappearing?,What are the**	**CG-3.1, CG-3.2, CG-3.3, CG-3.4, CG-5.1, CG-5.2, CG-6.1, CG-6.2, CG-7.1, CG-7.2, CG-7.3, CG-8.1, CG-9.1, CG-9.2/ CG-2.5, CG-3.4, CG-5.1, CG-5.2, CG-6.1, CG-6.2, CG-7.1, CG-7.2,CG-8.1, CG-9.1, CG-9.2**	**1.Food Chain and Food Web (Activity 12.6 and 12.8 of Textbook). 2. Interesting features about the Earth (Activity 13.1 of Textbook).**	January portion will be tested in Project RAIL on 01-02-2027
Feb 2027 (Revision Month)	**19**	**Revision of all the Chapters taught (Portion from September to February).**				Annual/Board Examination: 01-03-2027 to 05-03-2027 (portion from September to February)

CG IDs	**CGs (*CG Mapping - IDs) (NCF-2023)**
CG-1.1	CG-1.1 Classifies matter based on observable physical (solid, liquid, gas, shape, volume, density, transparent, opaque, translucent, magnetic, non-magnetic, conducting, non-conducting) and chemical (pure, impure; acid, base; metal, non-metal; element, compound) characteristics.
CG-1.2	CG-1.2 Describes changes in matter (physical and chemical) and uses particulate nature to represent the properties of matter and the changes.

CG-1.3	CG-1.3 Explains the importance of measurement and measures physical properties of matter (such as volume, weight, temperature, density) in indigenous, non-standard and standard units using simple instruments.
CG-1.4	CG-1.4 Observes and explains the phenomena caused due to differences in pressure, temperature, and density (e.g., breathing, sinking-floating, water pumps in homes, cooling of things, formation of winds).
CG-2.1	CG-2.1 Describes one-dimensional motion (uniform, non uniform, horizontal, vertical) using physical measurements (position, speed, and changes in speed) through mathematical and diagrammatic representations.
CG-2.2	CG-2.2 Describes how electricity works through manipulating different elements in simple circuits and demonstrates the heating and magnetic effects of electricity
CG-2.3	CG-2.3 Describes the properties of a magnet (natural and artificial; Earth as a magnet)
CG-2.4	CG-2.4 Demonstrates rectilinear propagation of light from different sources (natural, artificial, reflecting surfaces), verifies the laws of reflection through manipulation of light sources and objects and the use of apparatus and artefacts (such as plane and curved mirrors, pinhole camera, kaleidoscope, periscope)
CG-2.5	CG-2.5 Observes and identifies celestial objects (stars, planets, natural and artificial satellites, constellations, comets) in the night sky using a simple telescope and images/ photographs, and explains their role in navigation, calendars, and other phenomena (phases of the moon, eclipse, life on earth).
CG-3.1	CG-3.1 Describes the diversity of living things observed in the natural surroundings (insects, earthworms, snails, birds, mammals, reptiles, spiders, diverse plants, and fungi), including at a smaller scale (microscopic organisms)
CG-3.2	CG-3.2 Distinguishes the characteristics of living organisms (need for nutrition, growth and development, need for respiration, response to stimuli, reproduction, excretion, cellular organisation) from non-living things
CG-3.3	CG-3.3 Analyses patterns of relationships between living organisms and their environments in terms of dependence on and response to each other
CG-3.4	CG-3.4 Explains the conditions suitable for sustaining life on Earth and other planets (atmosphere; suitable temperature-pressure, light; properties of water).
CG-4.1	CG-4.1 Undertakes a nutrition-based analysis of food components with special reference to Indian culinary practices and modern understanding of nutrition, and explains the effect of nutrition on health

CG-4.2	CG-4.2 Examines different dimensions of diversity of food — sources, nutrients, climatic conditions, diets
CG-4.3	CG-4.3 Describes biological changes (growth, hormonal) during adolescence, and measures to ensure overall well-being
CG-4.4	CG-4.4 Recognises and discusses substance abuse, viewing school as a safe space to raise these concerns
CG-5.1	CG-5.1 Illustrates how Science and Technology can help to improve the quality of human life (health care, communication, transportation, food security, mitigation of climate change, judicious consumption of resources, applications of artificial satellites) as well as some of the harmful uses of science in history
CG-5.2	CG-5.2 Shares views on news and articles related to the impact that Science/Technology and society have on each other.
CG-6.1	CG-6.1 Illustrates how scientific knowledge and ideas have changed over time (description of motion of objects and planets, spontaneous generation of life, number of planets) and identifies the scientific values that are inherent and common across the evolution of scientific knowledge (scientific temper, Science as a collective endeavour, conserving biodiversity and ecosystems)
CG-6.2	CG-6.2 Formulates questions using scientific terminology (to identify possible causes for an event, patterns, or behaviour of objects) and collects data as evidence (through observation of the natural environment, design of simple experiments, or use of simple scientific instruments)
CG-7.1	CG-7.1 Uses scientific vocabulary to communicate Science accurately in oral and written form, and through visual representation
CG-7.2	CG-7.2 Designs and builds simple models to demonstrate scientific concepts
CG-7.3	CG-7.3 Represents real world events and relationships through diagrams and simple mathematical representations.
CG-8.1	CG-8.1 Knows and explains the significant contributions of India to all matters (concepts, explanations, methods) that are studied within the curriculum in an integrated manner.
CG-9.1	CG-9.1 States concepts that represent the most current understanding of the matter being studied — ranging from mere familiarity to conceptual understanding of the matter as appropriate to the developmental stage of the students.

CG-9.2	CG-9.2 States questions related to matters in the curriculum for which current scientific understanding is well recognised to be inadequate.