

Blooming Dales School

Class 7

Science ACPP

Month	Chapter (NCERT)	Key Learning Outcomes (SMART)	Suggested Pedagogical Strategies/Activities	Assessment Tools/Timeline
April	1. Nutrition in Plants	Explain photosynthesis, differentiate nutrition types.	Starch Test (Demo), Group presentation on carnivorous plants.	Formative: Concept Map, Quiz-1
May	2. Nutrition in Animals	Describe steps of nutrition, illustrate human digestive system.	3D model of digestive system (Group Project), Discussion on digestion.	Formative: Labeled Diagram, Project Submission, Quiz-2
July	3. Heat	Define heat/temp, explain modes of heat transfer (conduction, convection, radiation).	Experiments demonstrating heat transfer, Debate on clothing.	Formative: Lab Observation Sheet, Mid-Term Revision
August	4. Acids, Bases and Salts	Identify A/B using indicators, explain neutralization.	Testing natural indicators (e.g., turmeric), Role Play on neutralization.	Summative: Mid-Term Exam (Covers Ch 1-4)
August	5. Physical and Chemical Changes	Classify P/C changes, explain rusting.	Demonstration (Mg burning), Investigative Project on preventing rust.	Formative: Mind Map, Quiz-3
September	6. Respiration in Organisms	Differentiate aerobic/anaerobic, describe human respiratory system.	Lung model, Data analysis of breathing rate after exercise.	Formative: Concept Check, Data Interpretation Task
September	7. Transportation in Animals and Plants	Illustrate human circulatory system, explain transport in plants (Xylem/Phloem).	Tracing circulation (Interactive), Visual aids for plant transport.	Formative: Flow Chart for Circulation, Quiz-4
October	8. Reproduction in Plants	Distinguish asexual/sexual, describe flower structure/fertilization.	Flower dissection, Presentation on seed dispersal.	Formative: Labelling Diagram, Peer Assessment

November	9. Motion and Time	Define speed, calculate speed, plot/interpret distance-time graphs.	Experiment to calculate walking speed, Graphing activity.	Formative: Problem-solving worksheet, Quiz-5 (Numerical)
December	10. Electric Current and its Effects	Draw circuit symbols, explain heating/magnetic effects, illustrate fuse/electromagnet.	Hands-on circuit building, Electromagnet demonstration.	Formative: Circuit Diagram drawing, Practical assessment
January	11. Light	Explain reflection/dispersion, differentiate real/virtual images.	Observing dispersion (prism), Ray diagram drawing, Project: Kaleidoscope.	Formative: Ray diagram drawing, Quiz-6
January	12. Water: A Precious Resource	Explain forms/sources of water, discuss scarcity, suggest conservation methods.	Survey on water usage, Poster making ('Save Water').	Formative: Poster Assessment
February	13. Forests: Our Lifeline	Describe forest layers/components, explain role in nature, discuss conservation.	Case study on deforestation, Model/Diorama of a forest.	Formative: Diorama/Model Assessment, Revision Test
March	Revision & Final Assessment	Reinforce all key concepts, formulae, and diagrams from the syllabus.	Doubt-clearing, Practice of past papers.	Summative: Annual Final Examination (Full Syllabus)