Annual & Weekly Syllabus Split-Up - 2026-27

Grade 7

Subject: Science (Biology)

S.No	Month	No. of Working Days		No. of Days	Topic	Sub Topic	Teaching aid/Resources	Classroom teaching Video Link	Activity	Art Integrated project	Pedagogy Process/Teaching Strategy	Chapterwise Notes link	Assessment
1	APRIL	25	Week 1	4	Ch.1 Nutrition in plants	Modes of nutrition	Text book, Charts and Posters showing the process of Photosynthesis.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets				https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	
			Week 2	6		Autotrophic nutrition	Text book, Diagram of a leaf labeling stomata, chlorophyll, and veins.		Starch test in leaves (photosynthesis activity)	Create a leaf collage/painting showing photosynthesis. Label: sunlight, water, CO_2, chlorophyll. Add a short explanation.	**Engage**: Ask – "Can plants cook their own food?" **Demonstration**: Show leaf + sunlight experiment (starch test with iodine) **Visual Aid**: Diagram of photosynthesis **Activity**: Role-play (sunlight, chlorophyll, water, CO_2) **Real-life link**: Kitchen garden / farming		
			Week 3	5		Heterotrophic nutrition	Text book, Flowcharts showing how plants prepare food.						
			Week 4	6		Replenishment of nutrients, Exercises	Text book, Green leaves from plants to show chlorophyll.						Draw and label photosynthesis
			Week 5	4	Ch.2 Nutrition in animals	Holozoic nutrition	Text book, Charts and posters showing the human digestive system.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets				https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	
			Week 1	0									
			Week 2	6	**PT- 1**	Revision							
			Week 3	6	**PT- 1**	Revision							
			Week 4	6		Nutrition in amoeba	Text book, Labeled diagrams of mouth, stomach, small intestine, and large intestine.						

2	JUNE	20	Week 5	2	Ch.2 Nutrition in animals	Nutrition in humans	Text book, Flowchart explaining the steps of digestion (ingestion → digestion → absorption → assimilation → egestion).	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets	Digestion model activity		**Engage**: Show pictures of herbivores, carnivores, omnivores **Explain**: Human digestive system step-by-step **Model**: Use chart or 3D digestive system model **Activity**: "Food journey" storytelling (mouth → stomach → intestine) **Compare**: Cow vs human digestion		
			Week 1	4		Nutrition in grass- eating animals, Exercises	Text book, 3D model of the human digestive system to explain the organs and their functions.						Label digestive system diagram
3	JULY	27	Week 2	6	Ch.6 Respiration in organisms	Respiration	Text book, Charts and posters showing the human respiratory system.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets					
			Week 3	6		Human respiratory syatem	Text book, Labeled diagrams of nose, trachea, lungs, and diaphragm.						
			Week 4	6	**Pre Mid Term**	Revision							
			Week 5	5	**Pre Mid Term**	Revision							
4	AUGUST	24	Week 1	1	Ch.6 Respiration in organisms	Breathing	Text book, Flowchart explaining the process of Respiration.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets	Breathing Rate activity			https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	
			Week 2	6		Exchange of gases	Text book, 3D model of the human lungs to show breathing.						
			Week 3	5		Cellular respiration	Text book, Balloon model of lungs using a bottle and balloons to demonstrate inhalation and exhalation.				**Engage**: Ask students to hold breath **Demonstration**: Blow into lime water (CO_2 test) **Explain**: Aerobic vs anaerobic respiration **Activity**: Breathing rate before/after exercise **Visuals**: Lungs diagram		
			Week 4	6		Keeping the respiratory system healthy	Text book, Model of respiratory organs of animals.						
			Week 5	5+1		Breathing in other animals	Text book, Mirror activity to observe breath and fog formation.						
5	SEPTE	23	Week 1	5	**Term 1**	Revision							
			Week 2	6		Revision							
			Week 3	5	Ch.6 Respiration in organisms	Respiration in plants, Exercises	Text book, Observation of breathing rate before and after exercise.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets					Define respiration ,Difference between breathing & respiration
			Week 4	5		Transportation of materials in living organisms	Text book, Charts and posters showing the human circulatory system.						

	MBER		Week 5	3	Ch. 7 Transportation in animals	Human circulatory system	Text book, Labeled diagrams of the heart, blood vessels, and blood components.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets	Pulse Rate Activity		**Engage**: Check pulse rate **Model**: Heart diagram / animation **Explain**: Blood, vessels, heart **Activity**: Role-play (heart = pump, blood = transporters) **Video**: Blood circulation animation	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	
6	OCTOBER	25	Week 1	2		Excretion in living organisms	Text book, Flowchart explaining the process of Blood Circulation.						
			Week 2	6		Link between organ systems	Text book, 3D model of the human heart to explain its chambers and functions.						
			Week 3	6		Maintaining a healthy heart and kidneys, Exercises	Text book, Model of blood vessels (arteries, veins, and capillaries).						Draw heart diagram
			Week 4	5	Ch.8 Transportation in plants	Transport system in plants	Text book, Charts and posters showing the transport system in plants.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets	Water transport with Colored Water	Draw a plant and use colored threads: Blue→ Water (xylem), Red→ Food (phloem)	**Demo**: Colored water + white flower experiment **Explain**: Xylem and phloem with diagrams **Activity**: Leaf transpiration (plastic bag experiment) **Concept mapping**: Water movement	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	
			Week 5	5		Excretion in plants, Exercises	Text book, Labeled diagrams of roots, stems, and leaves.						Label plant transport system
7	NOVEMBER	12	Week 1	0	DIWALI BREAK								
			Week 2	0	DIWALI BREAK								
			Week 3	6	**PT- 2**	Revision							
			Week 4	6	**PT- 2**	Revision							
			Week 5	1	Ch.9 Asexual reproduction in plants	Reproduction in organisms	Text book, Charts and posters showing different types of asexual reproduction in plants.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets			**Examples**: Potato, ginger, Bryophyllum **Activity**: Grow plant from stem cutting **Visuals**: Budding, fragmentation **Comparison**: Sexual vs asexual	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	
8	DECEMBER	21	Week 1	5		Budding, fragmentation and spore formation	Text book, Labeled diagrams of budding, fragmentation, and spore formation.						
			Week 2	6		Vegetative propagation in plants, Exercises	Text book, Flowchart explaining the process of Asexual Reproduction.		Growing a plant from stem (Vegetative Propagation)				Give examples ,Short explanation questions
			Week 3	6	Ch.10 Sexual reproduction in plants	Flower	Text book, Charts and posters showing the parts of a flower.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets	Parts of a flower observation		**Real object**: Bring a flower to class **Dissection**: Identify parts (stamen, pistil) **Explain**: Pollination types **Activity**: Diagram labelling **Storytelling**: "Journey of pollen"	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	

			Week 4	4		Pollination	Text book, Model of pollination process.						
			Week 5	0	winter vacation	winter vacation							
9	JANUARY	22	Week 1	0	winter vacation	winter vacation							
			Week 2	6	**Post Mid Term**	Revision							
			Week 3	5	**Post Mid Term**	Revision							
			Week 4	6	Ch.10 Sexual reproduction in plants	Fertilisation	Text book, Flowchart explaining the process of Sexual Reproduction in plants.	https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841&activeTab=assets				https://teacher.pinnaclelearning.in/book?bookId=127&userRole=teacher&isbn=9789358936841	
			Week 5	5		Development of fruits and seeds	Text book, 3D model of a flower showing male and female reproductive parts.						
10	FEBRUARY	23	Week 1	6		Dispersal and germination of seeds, Exercises	Text book, Labeled diagrams of stamen, pistil, ovary, ovule, and petals.						Label flower diagram
			Week 2	6	REVISION	REVISION							
			Week 3	5	REVISION	REVISION							
			Week 4	6	REVISION	REVISION							
			Week 5	NA									
11	MARCH	17	Week 1	5	**Annual Examination**	REVISION							
			Week 2	6		REVISION							
			Week 3	6		REVISION							
			Week 4	5									
			Week 5	3									