

Gopi Birla Memorial School 2024-2025

GRADE : 11 BIOLOGY

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ANNUAL PLAN

MONTH	MAIN CONTENT/ CHAPTERS	ACTIVITIES/ PRACTICALS
June	Chapter-1: The Living World Chapter-2: Biological Classification	<p>1. Parts of a compound microscope.</p> <p>2. Specimens/slides/models and identification with reasons - Bacteria, <i>Oscillatoria</i>, <i>Spirogyra</i>, <i>Rhizopus</i>, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.</p> <p>3. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).</p> <p>.</p>
July	Chapter-3: Plant Kingdom Chapter-4: Animal Kingdom Chapter-5: Morphology of Flowering Plants	<p>4. . Preparation and study of T.S. of dicot and monocot roots and stems (primary).</p> <p>5. Virtual specimens/slides/models and identifying features of - <i>Amoeba</i>, <i>Hydra</i>, liverfluke, <i>Ascaris</i>, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.</p> <p>6. Different types of inflorescence (cymose and racemose).</p> <p>7. Study of distribution of stomata on the upper and lower surfaces of leaves.</p>

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August	Chapter-6: Anatomy of Flowering Plants Chapter-7: Structural Organisation in Animals Chapter-8: Cell-The Unit of Life Chapter-9: Biomolecules	8. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). 9. Study of osmosis by potato osmometer.
September	Revision for Terminal Examination	
October	Chapter-10: Cell Cycle and Cell Division Chapter-11: Photosynthesis in Higher Plants	10. Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.
November	Chapter-12: Respiration in Plants Chapter-13: Plant - Growth and Development	11. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. 12. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. 13. Separation of plant pigments through paper chromatography
December	Chapter-14: Breathing and Exchange of Gases Chapter-15: Body Fluids and Circulation	14. Test for presence of urea in urine. 15. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.
January	Chapter-16: Excretory Products and their Elimination Chapter-17: Locomotion and Movement	16. Test for presence of sugar in urine. 17. Test for presence of albumin in urine. 18. Test for presence of bile salts in urine.
February	Chapter-18: Neural Control and Coordination Chapter-19: Chemical Coordination and Integration	19. Human skeleton and different types of joints with the help of virtual images/models only.