

**NAVY CHILDREN SCHOOLS**  
**SPLIT-UP OF SYLLABUS (2024-25)**

**SUBJECT: BIOLOGY THEORY**

**CLASS: XII**

<b>SNO</b>	<b>MONTH</b>	<b>UNIT</b>	<b>CHAPTERS</b>
1	April/June	Reproduction	2. Sexual reproduction in flowering plants 3. Human reproduction
2	July/August	Genetics & Evolution	5. Principles of inheritance & Variation 6. Molecular basis of Inheritance
3	August/September	Reproduction Evolution	4. Reproductive health 7. Evolution
4	September	<b>Revision and Half-yearly exam</b>	
5	October/November	Biology and human welfare Ecology & Environment Biotechnology	8. Human health and disease 10. Microbes in human welfare 11. Biotechnology: Principles and processes 12. Biotechnology & its applications
6	October/November	Ecology & Environment	13. Organisms & populations 14. Ecosystem 15. Biodiversity & conservation
7	December	<b>Revision and Pre-boards</b>	

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**SUBJECT: BIOLOGY PRACTICAL**

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<b>SNO</b>	<b>MONTH</b>	<b>EXPERIMENTS/SPOTTERS</b>
<b>1</b>	April/June	1. Flowers adapted to pollination by different agencies. 2. Observe pollen grains on stigma through permanent slide. 3. To Prepare a temporary mount to observe pollen germination. 4. Identify different stages of gamete development-T.S of ovary & testis. 5. To observe the T.S of Blastula through a permanent slide.
<b>2</b>	June/July	6. Study Mendelian inheritance using seeds of different colours/size. 7. To study prepared pedigree charts of any one- Widow's peak/ rolling of tongue/ blood groups/colour blindness/earlobes. 8. To prepare a temporary mount of Onion root tips to study mitosis.
<b>3</b>	August	9. Flash card model showing homologous and analogous organs 10. To study controlled pollination-emasculation, tagging, bagging 11. Common disease causing organisms: Ascaris, Entamoeba, Plasmodium & any fungus causing ringworm.
<b>4</b>	September	<b>Revision and Half-yearly exam</b>
<b>5</b>	October	12. Study plant population density by Quadrat method. 13. Study plant population frequency by Quadrat method 14. To isolate DNA from available plant material.
<b>6</b>	November	15. Model specimen showing symbiotic association

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<b>SNO</b>	<b>MONTH</b>	<b>CHAPTERS</b>
<b>1</b>	June/July	1. Living world 2. Biological Classification 17. Breathing & exchange of gases 5. Morphology of flowering plants
<b>2</b>	August/September	18. Body fluids & circulation 6. Anatomy of flowering plants 3. Plant Kingdom 13. Photosynthesis in higher plants
<b>3</b>	September	<b>Revision and Half-yearly exam</b>
<b>4</b>	October	4. Animal Kingdom 8. Cell: Unit of life 19. Excretory products & their elimination
<b>5</b>	November/December	10. Cell cycle 14. Respiration in plants 9. Biomolecules 7. Structural Organisation of animals
<b>6</b>	December/January	20. Locomotion & movement 21. Neural control & coordination 15. Plant growth and development
<b>8</b>	February	<b>Revision and annual exam</b>

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<b>SNO</b>	<b>MONTH</b>	<b>EXPERIMENTS/SPOTTERS</b>
1	June/July	1. Parts of a compound microscope 2. Specimens/models: Bacteria, Oscillatoria, Siprogyra, Rhizopus, Mushroom, Yeast, Liverwort, moss, fern, pinus, a monocot plant, a dicot plant, Lichen etc 3. Specimens/slides/model: Amoeba, Hydra, Liver fluke, Ascaris, Leech, Earth worm, Prawn, Silk worm, Honey bee, Snail, Starfish, Shark, Rohu, Frog, Lizard, Pigeon, Rabbit etc
2	August	4. To study rate of respiration in germinating seeds 5. To study distribution of stomata in the upper and lower surface of leaves. 6. Separation of pigments by paper chromatography 7. Study of transpiration
3	September	<b>Revision and Half-yearly exam</b>
4	October	8. Study Mitosis through permanent slides 9. Osmosis by potato Osmometer. 11. To study Plasmolysis
5	November	12. 10. Tests for- Sugar, starch, proteins & fats in plant and animal materials 13. Tests for – Urea, sugar, albumin & bile salts in Urine 14. Human skeleton and types of joints
6	December	15. To study types of inflorescences 16. Study of locally available flowering plants, each from Solanaceae including the dissection and display of floral whorls, to write their floral formula & draw their floral diagram. 17. To study TS of dicot & monocot stem & root

