

## Gopi Birla Memorial School 2024-2025

**GRADE:12 BIOLOGY**

**MS.MUBASHERA ANSARI**

### ANNUAL PLAN

MONTH	MAIN CONTENT/ CHAPTERS	ACTIVITIES/ PRACTICALS
April	Chapter 2: Human Reproduction  Chapter 3: Reproductive health Chapter 1: Sexual Reproduction in Plants	1. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). (Spotting)  2. T.S. of blastula through permanent slides(Mammalian).(Spotting)
June	Chapter 1: Sexual Reproduction in Plants (continuation)  Chapter 4: Principles of inheritance and variation	3. Meiosis in onion bud cell or grasshopper testis through permanent slides. (Spotting) 4. To study the pollen germination on slide. (Core- slide preparation). 5. Pollen germination on stigma through a permanent slide or scanning electron micrograph 6. Flowers adapted to pollination by different agencies (wind, insects, birds).(Spotting) 7.Study of plant population by quadrant method. 8. Study of population frequency by quadrant method. 9.Mendelian inheritance using seeds of different colour/sizes of any plant. 10. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colourblindness.
July	Chapter 5: Molecular Basis of Inheritance  Chapter 7: Human Health and Diseases	11.Isolate DNA from available plant material such as spinach, green pea seeds, papaya,etc. (Core- Major Experiment) 12. Common disease causing organisms like <i>Ascaris</i> , <i>Entamoeba</i> , <i>Plasmodium</i> , any fungus causing

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		ringworm through permanent slides or specimens. Comment on symptoms of diseases that they cause. (Spotting)
August	Chapter 8: Microbes in Human Welfare  Chapter 9: Biotechnology - Principles and processes Chapter 10: Biotechnology and its Application	13. Models specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens.  14. Controlled pollination - emasculation, tagging and bagging.
September	Revision for Terminal Examination	
October	Chapter 11: Organisms and Populations Chapter 6 : Evolution	
November	Chapter 12: Ecosystem Chapter 13: Biodiversity and its Conservation	15. Flash cards models showing examples of homologous and analogous organs.