



D.A.V. PUBLIC SCHOOL, NEW PANVEL

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SYLLABUS PLANNING (2017-18)

STD. XII

SUBJECT: BIOLOGY

Month	No. of Teaching Days	Topics	No. of Periods	Weightage
MARCH	07	<u>UNIT VI:Reproduction</u> Chapter-1: Reproduction in organisms. Chapter-2: (Contd.) Sexual Reproduction in flowering plants.	07 04	14
APRIL	22	<u>UNIT VI:Reproduction</u> Chapter-2: (Contd.) Sexual Reproduction in flowering plants. Chapter-3: Human reproduction Chapter-4: Reproductive Health	08 12 05	
JUNE	24	<u>UNIT VII :</u> <u>GENETICS & EVOLUTION</u> Chapter-1: Principles of Inheritance and Variation Chapter-2 : Molecular Basis of Inheritance Revision for I Unit Test	15 08 05	18
JULY	25	I Unit Test <u>UNIT VII :</u> <u>GENETICS & EVOLUTION</u> Chapter-2 : (Contd.) Molecular Basis of Inheritance Chapter-3: Evolution	07 12 10	
AUGUST	17	<u>UNIT VIII:</u> <u>Biology and Human Welfare</u> Chapter-1: Human health and diseases. Chapter -2: Strategies for Enhancement in Food Production. Chapter-3: Microbes in human welfare.	08 08 05	14

Month	No. of Teaching Days	Topics	No. of Periods	Weightage
SEPTEMBER	22	<u>UNIT IX:</u> <u>Biotechnology & its applications</u> Chapter-1: Biotechnology: Principles and Processes Revision of I Term Exam I Term Examination	08 05 11	10
OCTOBER	12	<u>UNIT IX:</u> <u>Biotechnology & its applications</u> Chapter-1: (contd.) Biotechnology: Principles and Processes Chapter-2: Biotechnology and its Applications <u>UNIT X: Ecology</u> Chapter -1: Organisms and Populations	04 07 03	14
NOVEMBER	24	<u>UNIT X:Ecology(Contd.)</u> Chapter -1: (contd.) Organisms and Populations Chapter-2: Ecosystem Chapter -3: Biodiversity and Conservation Chapter-4: Environmental Issues Revision & Preparatory Exam	05 05 04 06 13	
DECEMBER	23	Preparatory Exam & Practical Exam Revision for Preliminary Exam.	11 13	
JANUARY	24	Revision for Preliminary Exam, Preliminary Exam & Board Practical Exam	24	
FEBRUARY	12	Revision for Board Exam	12	
TOTAL	212		245	70



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SYLLABUS PLANNING (2017-8)

PRACTICAL

SUB: BIOLOGY

STD: XII

Month	No. of Periods For Practical	Experiments
MARCH	-	--
APRIL	--	--
JUNE	08	<p>SPOTTING:</p> <p><u>Experiment 1:</u> Flowers adapted to pollination by different agencies (wind, insect).</p> <p><u>Experiment 2:</u> Pollen germination on stigma through a permanent slide.</p> <p><u>Experiment 3:</u> T.S. of blastula through permanent slides.</p> <p><u>Experiment 4:</u> Identification of stages of gamete development i.e. T.S. testis and T.S. ovary through permanent slides (from any mammal).</p> <p><u>Experiment 5:</u> Meiosis in onion bud cell or grass hopper testis through permanent slides.</p> <p><u>Experiment 6:</u> Exercise on controlled pollination - Emasculation, tagging and bagging.</p> <p><u>Experiment 7:</u> Identification of common disease causing organisms like Ascaris, Entamoeba, Plasmodium, ringworm through permanent slides or specimens. Comment on symptoms of disease that they cause.</p> <p><u>Experiment 8:</u> Plants and animals found in aquatic conditions. Comment upon their morphological adaptations</p> <p><u>Experiment 9:</u> Two plants and two animals found in xerophytic conditions. Comment upon their morphological adaptations.</p> <p><u>Experiment 10:</u> Mendelian inheritance using seeds of different colour/sizes of any plant.</p> <p><u>Experiment 10:</u> Prepared pedigree charts of genetic traits such as rolling of tongue, blood groups, widow's peak, colour blindness.</p>

Month	No. of Periods For Practical	Experiments
JULY	06	<p>CORE EXPERIMENTS</p> <p><u>Slide Preparation:</u></p> <p><u>Experiment 1:</u> Study pollen germination on a slide/ Pollen germination on stigma .</p> <p><u>Experiment 2:</u> Prepare a temporary mount of onion root tip to study mitosis.</p>
AUGUST	06	<p>CORE EXPERIMENTS</p> <p><u>Minor Experiments:</u></p> <p><u>Experiment 3:(i)</u> Collect and study soil from at least two different sites and study them for texture &pH .Correlate with the kinds of plants found in them.</p> <p><u>Experiment 3: (ii)</u>Collect and study soil from at least two different sites and study them for moisture content.</p> <p><u>Experiment 3: (iii)</u>Collect and study soil from at least two different sites and study them for water holding capacity</p>
SEPTEMBER	02	<p><u>Experiment 4: (i)</u>Collect and study water samples from at least two different sites and study them for pH ,clarity (particulate matter) and presence of any living organism.</p> <p><u>Experiment 5:</u> Study the presence of suspended particulate matter in air at two widely different sites.</p>
OCTOBER	06	<p><u>Major Experiments:</u></p> <p><u>Experiment 6:</u> Study of plant population density by quadrat method.</p> <p><u>Experiment 7:</u> Study of plant population frequency by quadrat method.</p>
NOVEMBER	04	<p><u>Experiment 8:</u> To study the effect of the different temperatures and three different pH on the activity of salivary amylase on starch.</p> <p><u>Experiment 9:</u>Isolate DNA from available plant material such as spinach,green pea seeds ,papaya etc</p>
DECEMBER	06	Revision & Preparatory Practical Examination
JANUARY	04	Revision & Preliminary Practical Exam Revision for Board Practical Exam
TOTAL	42	