



## D.A.V. PUBLIC SCHOOL, NEW PANVEL

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### SYLLABUS PLANNING (2017-18)

**STD. XI**

**SUBJECT: BIOLOGY**

Month	No. of Teaching Days	Topics	No. of Periods	Weightage
APRIL	07	<b><u>UNIT :V Human Physiology</u></b> <b>Chapter:- 16</b> Digestion and Absorption	07	<b>18</b>
JUNE	24	<b><u>UNIT :V Human Physiology</u></b> <b>(Contd.)</b> <b>Chapter-16(Contd.)</b> Digestion and Absorption <b>Chapter-17 :</b> Breathing and Exchange of Gases <b><u>UNIT :III Human Physiology</u></b> <b>Chapter- :8</b> Cell-The unit of Life <b>Chapter- :10</b> Cell Cycle and Cell Division Revision for I Unit Test	05 08 06 06 04	<b>15</b>
JULY	25	I Unit Test <b><u>UNIT :III Human Physiology</u></b> <b>(Contd.)</b> <b>Chapter-9 :</b> Biomolecules <b><u>UNIT :V Human Physiology</u></b> <b>(Contd.)</b> <b>Chapter-18:</b> Body Fluid and Circulation <b>Chapter-19:</b> Excretory Products and their elimination.	07 12 08 04	
AUGUST	17	<b><u>UNIT :V Human Physiology</u></b> <b>(Contd.)</b> <b>Chapter-19:</b> Excretory Products and their elimination.(Contd.) <b>Chapter -20:</b> Locomotion and Movement <b>Chapter-21:</b> Neural control and coordination	04 08 08	

Month	No. of Teaching Days	Topics	No. of Periods	Weightage
SEPTEMBER	22	<b><u>UNIT :V Human Physiology (Contd.)</u></b> <b>Chapter-22:</b> Chemical coordination and Integration Revision of I Term Exam I Term Examination	08 05 11	
OCTOBER	12	<b><u>UNIT II:Structural Organisation in Animals and Plants</u></b> <b>Chapter-5:</b> Morphology of flowering Plants <b>Chapter-6:</b> Anatomy of flowering plants_ <b>Chapter -7:</b> Structural Organization in Animals	08 08 05	<b>12</b>
NOVEMBER	24	<b><u>UNIT IV:Plant Physiology</u></b> <b>Chapter-11:</b> Transport in plants <b>Chapter -12:</b> Mineral Nutrition <b>Chapter-13:</b> Photosynthesis <b>Chapter-14:</b> Respiration in Plants Revision for II Unit Test	08 08 08 08 05	<b>18</b>
DECEMBER	23	II Unit Test <b><u>UNIT IV:Plant Physiology (Contd.)</u></b> <b>Chapter-15:</b> Plant Growth and Development <b><u>UNIT I:Diversity in Living Organisms</u></b> <b>Chapter-1:</b> The Living World <b>Chapter-2:</b> Biological Classification <b>Chapter-3:</b> Plant Kingdom <b>Chapter-4:</b> Animal Kingdom Revision for Preliminary Exam	08 05 04 05 05 06 08	<b>07</b>
JANUARY	24	Revision for Preliminary Exam, Preliminary Exam &Board Practical Exam	24	
FEBRUARY	18	Revision for Board Exam	18	
<b>TOTAL</b>	<b>196</b>		<b>252</b>	<b>70</b>



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## SYLLABUS PLANNING (2017-8)

### PRACTICAL

SUB: BIOLOGY

STD: XI

Month	No. of Periods For Practical	Experiments
JUNE	04	<p><b>Spotting Experiments:</b></p> <p><u>Spot Experiment 1:</u> Study of the parts of a compound microscope.</p> <p><u>Spot Experiment 2:</u> Study of specimens/slides/models and identification with reasons. (Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocot, one dicot and one lichen)</p>
JULY	06	<p><u>Spot Experiment 3:</u> Study of specimens/slides/models and identification with reasons. (Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit)</p> <p><u>Spot Experiment 4:</u> (i) Study of tissues and diversity in shapes and sizes of plant cells (Palisade cells, guard cells, Parenchyma, collenchymas, sclerenchyma, xylem, phloem.) through temporary/permanent slides.</p> <p><u>Spot Experiment 4:</u> (ii) Study of tissues and diversity in shapes and sizes of animal cells (squamous epithelium, muscle fibres, Blood smear) through temporary/permanent slides.</p> <p><u>Spot Experiment 5:</u> (i) Study of different root modifications.</p> <p><u>Spot Experiment 5:</u> (ii) Study of different stem modifications.</p> <p><u>Spot Experiment 5:</u> (iii) Study of different leaf modifications</p>
Month	No. of Periods	Experiments

	<b>For Practical</b>	
AUGUST	06	<p><u>Spot Experiment 6:</u> Study of imbibitions in seeds/raisins.</p> <p><u>Spot Experiment 7:</u> Observation and comments on the experimental set up for showing:</p> <p>a) Anaerobic respiration b) Phototropism</p> <p>c) Effect of apical bud removal. d) Suction due to transpiration</p> <p><u>Spot Experiment 8:</u> Study and identification of different types of inflorescence (cymose and racemose)</p> <p><u>Spot Experiment 9:</u> Study of human skeleton and different types of joints with the help of virtual images /models only</p> <p><u>Spot Experiment 10:</u> Study of external morphology of cockroach through virtual images/models.</p> <p><u>Spot experiment 11:</u> Study of mitosis in onion root tip cell and animal cells from permanent slides.</p>
SEPTEMBER	02	<p><u>Core Experiment 1 (Major)</u> Study and describe three locally available plants, one each from the families solanaceae, Fabaceae and Liliaceae including dissection and display of whorls anther and ovary to show number of chambers. Types of root (tap and adventitious), stem (herbaceous and woody), leaf (arrangement, shape, venation, simple and compound)</p>
OCTOBER	06	<p><u>Core Experiment 2:</u> (Slide Preparation)</p> <p>(i) Preparation and study of T.S. of dicot stem. (primary)</p> <p><u>Core Experiment 2:</u> (ii) Preparation and study of T.S. of monocot stem. (primary)</p> <p><u>Core Experiment 2:</u> (iii) Preparation and study of T.S. of dicot root. (primary)</p> <p><u>Core Experiment 2:</u> (iv) Preparation and study of T.S. of monocot root. (primary)</p>
NOVEMBER	08	<p><u>Core Experiment 3: (Major)</u> Separation of plant pigments through paper chromatography.</p> <p><u>Core Experiment 4. (Major)</u> Study of osmosis by potato osmometer.</p>

Month	No. of Periods For Practical	Experiments
DECEMBER	04	<p><u>Core Experiment 5:</u> (Slide Preparation) Study of plasmolysis in epidermal peels(eg.Rhoeo leaf)</p> <p><u>Core experiment 6:</u>(Slide Preparation) Study of distribution of stomata in upper and lower surface of leaves.</p> <p><u>Core Experiment 7:</u>(Minor)Comparative study of rates of transpiration in the upper and lower surface of leaves.</p> <p><u>Core experiment 8:(Major)</u>Study of rate of respiration in flower buds/laef tissue and germinating seeds.</p> <p><u>Core Experiment 9:</u> (Major)Test for the presence of sugar,starch,protein and fats.to detect these in suitable plant and animal materials.</p> <p><u>Core experiment 10 to 13(Minor)</u>Test for the presence of:a)urea b)sugar c)albumin d)bile salts in urine.</p>
JANUARY	04	Revision Practical & Preliminary Exam
FEBRUARY		Revision Practical & Annual Exam
<b>TOTAL</b>	<b>36</b>	