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| SUBJECT: Science | | | **SYLLABUS FOR THE ACADEMIC YEAR 2021-2022** | | |
| OPTION: Biology | | |
| GRADE: 10 | | |
| Month | Date | No.of days | Topics | Sub Topics | Lead |
|
| April | 11-15 | 5 | …. | Diagnostic test | Ms.Sulfath Ms. Savitha |
| 18-22 | 5 | Sensations and Responses | Lesson Indroduction , Neuron, Generation and Transmission of Impulses, Synapse |
| 25-29 | 5 | Sensations and Responses | Nerves, Nervous System, Brain |
| May | 2-6 | 5 | Sensations and Responses | Spinal Cord,Autonomous Nervous System, Nervous System and Its Disease |
| 9-13 | 2 | Sensations and Responses | Lesson Review |
| 16-20 | 5 | Windows of Knowledge | Eye, Regulation of Light in the Eye |
| 23-27 | 5 | Windows of Knowledge | Formation of Image,Retina and Photoreceptors, Chemistry of Vision |
| 30-31 | 2 | Windows of Knowledge | Eye-Defects and Diseases, Protection of Eyes, Ear |
| June | 1-3 | 3 | Windows of Knowledge | How is Hearing Possible, Ear and Body Balancing |
| 6-10 | 5 | Windows of Knowledge | To Detect Taste, To Detect Smell, Receptors in the Skin , Receptors in Various Organisms. |
| 13- 17 | 5 | ***First Term Examination*** | |
| 20-24 | 5 | ***First Term Examination*** | |
| 27-30 | 4 | Chemical Messages for Homeostasis | Hormones to the target cells |
| August | 29-31 | 3 | Chemical Messages for Homeostasis | After Digestion |
| September | 1-2 | 2 | Chemical Messages for Homeostasis | When Insulin Fails |
| 5-9 | 5 | Chemical Messages for Homeostasis | Regulation of Metabolism,Biological Clock Regulation of Level of Calcium, Behind sexual characteristics |
| 12-16 | 5 | Chemical Messages for Homeostasis | Behind growth,Childbirth, Breast feeding, Maintenance of water balance,Prime Controller |
| 19- 23 | 5 | Chemical Messages for Homeostasis | Chemical messages for communication, Plants too have hormones, Artificial Plant Hormones |
| 26- 30 | 5 | Soldiers of Defense | Body Coverings and Secretions, Blood and Defense |
| October | 3-7 | 5 | Soldiers of Defense | Inflammatory Response, Phagocytosis, Blood clotting, Healing of wounds,Fever-a Defense Mechanism |
| 10 14 | 5 | Soldiers of Defense | Lymphocytes- The Warror, Lymph and Defense, Immunization, Treatement-Final Defense |
| 17 -21 | 4 | Soldiers of Defense | Antibiotics, Blood Transfusion, Defense Mechanism in Plants |
| 24-28 | 5 | Unravelling Genetic Mysteries | Emergence of Genetics, Experiments of Mendel |
| November | 1- 4 | 4 | ***Revision*** | |
| 7-11 | 5 | ***Second Term Examination*** | |
| 14- 18 | 5 | ***Second Term Examination*** | |
| 21-25 | 5 | Unravelling Genetic Mysteries | DNA, RNA, How do genes act? |
| 28-30 | 3 | Unravelling Genetic Mysteries | Chromosomes in Humans, Genetic Variation, Is the child male or female? Difference in skin colour. |
| December | 5-9 | 5 | Genetics of the Future | Production of Insulin,Genetic Engineering, Gene Therapy,Genetically Modified Animals and Crops, |
| January | 2-6 | 5 | Genetics of the Future, The Paths Traversed by Life | DNA finger printing, Chemical Evalution, Urey - Miller Experiment(Special Class) |
| 9-13 | 5 | The Paths Traversed by Life | Evalution - Through Theories, Lamarckism, Darwinism , Evidences of Evalution- Fossil-Evidence of Evalution, Comparative Morphological Studies, Biochemistry and Physiology, Molecular Biology, Evalution of Human beings(Special Class) |
| 16-20 | 5 | ***Premodel Examination*** | |
| 23-27 | 4 | ***Premodel Examination*** | |
| 30-31 | 2 | ***Revision*** | |
| February | 1-3 | 3 | ***Revision*** | |
| 6-10 | 5 | ***Revision*** | |
| 13-17 | 4 | ***S.S.L.C Model Examination*** | |
| 20-24 | 5 | ***S.S.L.C Model Examination*** | |
| 27-28 | 2 | ***Study holidays*** | |
| March | 1-3 | 3 | ***Study holidays*** | |
| 6-10 | 5 | ***S.S.L.C Board Examination*** | |
| 13-17 | 5 | ***S.S.L.C Board Examination*** | |