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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*** |