SYLLABUS 2021 - 2022

CLASS - 7 SUBJECT : SCIENCE

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	TERM -I
1. Measurement	1.1.1 Fundamental quantities 1.1.2 Derived quantities 1.2. Area 1.3 Volume 1.4 Density 1.5 Measuring larger distances 1.5.1 Astronomical Unit 1.5.2 Light year
2. Force and Motion	2.2.1 Speed 2.2.2 Velocity 2.3 Acceleration and its types 2.7 Stability 2.7.1 Condition for stability
3. Matter Around Us	3.1 Atom 3.2 Molecule 3.3. Elements 3.3.1 Classification of Elements Difference between metal and non-metals 3.4 Compounds 3.4.1 Properties of compounds

4. Atomic Structure	4.1 Atomic theories 4.1.1 Dalton's atomic theory 4.2 The Sub-atomic particles 4.3.1 Atomic Number 4.3.2 Mass Number
5. Reproduction and Modification in plants	5.1 Reproduction 5.2 Sexual Reproduction 5.2.1 Parts of flower 5.2.2 Types of flowers 5.3 Asexual Reproduction 5.3.1 Vegetative Propagation 5.3.2 Budding

6. Health and Hygiene	6.1 Hygiene 6.1.1 Personal hygiene 6.1.2 Community Hygiene 6.2.1 Dental Care 6.2.2 Eye care 6.3. Diseases 6.3.1 Communicable Diseases – Tuberculosis, Chickenpox 6.3.2 Non Communicable Diseases – Wearing out of body parts, Malnutrition 6.5 Safety and First Aid
TERM -II	
1. Heat and Temperature	1.2 Temperature Units 1.4 Temperature 1.4 Types of Temperature 1.4 1. Clinical Temperature
2. Electricity	2.1 Electric Current- Unit of electric current 2.1.1 Conventional Current and Electron Flow 2. 2 Potential Difference 2.2.1 Units of potential difference 2.3.1 Types of cell 2.3.2 Difference between primary and secondary cell 2.6.1 Conductors 2.6.2 Insulators
3. Changes Around Us	Introduction 3.2 Physical Changes 3.2.1 Characteristics of a physical changes 3.3 Changes of state 3.1.1 Melting 3.1.2 Vapourization 3.3.5 Sublimation 3.4 Chemical Changes 3.4.1 Rusting of iron

4. Cell Biology	4.1 Cell as a fundamental unit of life 4.2 Plant and Animal cell comparison 4.3 Cell structure, cell membrane Cell wall- Supporter and protector Chloroplast - Food Producers Nucleus - Functions of Nucleus
5. Basis of Classification	Introduction List out things found in your class room 5.1. Basics of Classification - Need for Classification Classification of Animals – only flow chart 5.2 Classification of plants – only flow chart, Algae
TERM -III	
1. Light	Sources of light Natural sources of light Artificial sources of light Properties of light Pinhole Camera Reflection Laws of reflection Transparent material Translucent Material Opaque Material Shadows Parts of shadow Properties of shadow

2. Universe and Space	Introduction Galaxies Types of galaxies Spiral galaxy Elliptical galaxy Irregular galaxy Barred spiral Satellites Natural Satellites Artificial satellites

3. Polymer Chemistry	3.1 Introduction 3.2 What are Polymers? 3.2.2 Natural Polymers 3.2.3 Synthetic Polymers 3.3 Fibres 3.3.1 Natural and Synthetic Fibres 3.4 Plastics 3.4.4 Various methods of disposing plastics
4. Chemistry in Daily Life	Introduction 4.1 Oral Rehydration Solution (ORS) 4.2 Antacid Combustion Types of combustion Structure of a Candle flame Characteristics of good fuel
5. Animals in Daily Life	5.1 Animal products used as food Milk, Eggs, Meat, Poultry Farming 5.2 Animal products used as clothing Animal Fibres – Wool, Process of wool, Characteristics of wool, Uses of wool