World Curriculum

BY COMPARATIVE EDUCATION SOCIETI

Science

Grade 6								
1. Plants	2. Human Body	3. Cell	4. Structure of matter	5. Soil	6. The Earth	7. Motion and force	8. Light	9. Electricity
1.1 Flower	2.1 Sense organs	3.1 Structure	4.1 An atom	5.1 Types of soil	6.1 The unique Earth in the solar system	7.1 Types of motion	8.1 Sources of light	9.1 Electric charge
1.2 Root	2.2 Mouth and teeth	3.2 Parts of a cell	4.2 Constituents of an atom	5.2 Characteristics of soil		7.2 Speed	8.2 Light rays and beams	9.2 Electric current
1.3 Stem	2.3 Digestive system	3.3 Plant and animal cells	4.3 An element	5.3 Soil profile		7.3 Distance-time graph	8.3 How light travels	9.3 Conductors and insulators
1.4 Leaf	2.4 Excretory system	3.4 Variation of cells in organisms	4.4 The periodic table			7.4 Speed measurement	8.4 Light and the human eye	9.4 Resistance of a conductor
1.5 Photosynthesis	2.5 Respiratory system	3.5 Tissues and organs	4.5 Classification of elements	5.5 Water absorption in soil		7.5 Force	8.5 Transmission of light through objects	
1.6 Diffusion	2.6 Nervous system	3.6 The role of cells in organisms	4.6 A molecule	5.6 Soil erosion		7.6 Turning effect of a force	8.6 Plane mirror and reflection of light	9.6 Measuring electric current
1.7 Osmosis	2.0 Merious system		4.7 Compounds			7.7 Hammer, Lever, pulley, wheel and axis	olo hane minor and reneed on of light	sto measuring creatile current
1.8 Transpiration			4.8 A mixture			7.8 Inclined plane and pulley		
1.9 Transportation of water and minerals			4.9 A solution			7.9 Human body and simple machine		
Grade 7 1. Plants	2. Human Body	3. The living world	4. States of matter	5. Air and water	6. The Solar System and beyond	7. Force and friction	8. Light	9. Electricity
1.1 Reproduction	2.1 Circulatory system	3.1 Main characteristics	4.1 Solids	5.1 Components of air	6.1 Planets in the solar system	7.1 Distance and displacement	8.1 Laws of reflection	9.1 Static electricity
1.2 Asexual reproduction	2.2 Muscles and joints	3.2 Classifying living organisms	4.2 Liquids	5.2 Layers of atmosphere	6.2 The Milky Way	7.2 Speed and velocity	8.2 Multiple reflection	9.2 Generation of electricity
1.3 Sexual reproduction	2.3 Reproduction system	3.3 Various types of plants	4.3 Gases	5.3 Balance of key air components	6.3 Stars, constellations and galaxies	7.3 Acceleration	8.3 Reflection from curved mirrors	9.3 Heating effect of electric current
1.4 Pollination	2.4 Adolescence and puberty	3.4 Gait of animals, reptiles, bird and fish	4.4 Air - a mixture of gases	5.4 Weather and climate	6.4 Asteroids, coments, metors and meteorite	7.4 Types of forces	8.4 Formation of shadows	9.4 Chemical effect of electric current
1.5 Fertilization	2.5 Lifestyle and health	3.5 Digestion in grass eating animals	4.5 Particle theory	5.5 Environmental water cycle	6.5 Star distance	7.5 Gravitational force	8.5 Umbra and Penumbra	9.5 Electroplating
1.6 Fruits and seeds	2.6 Harmful drugs	3.6 Feeding and digestion in amoeba	4.6 Diffusion	5.6 Types of water	6.6 Black holes	7.6 Mass and weight	8.6 Speed of light	9.6 Lightning
1.7 Germination of seeds			4.7 Brownian motion	5.7 Drinking water		7.7 Weightlessness		
1.8 Herbs, shrubs and trees			4.8 Changing state	5.8 Natural reservoirs of water		7.8 Friction		
1.9 Deforestation and conservation of forests			4.9 Discontinuous nature of matter	5.9 Depletion of water table		7.9 How to reduce friction?		
Grade 8								
1. Agriculture	2. Food and nutrition	3. The living ecosystem	4. Material changes	5. Pollution	6. Space exploration and artificial satellites	7. Pressure	8. Sound	9. Magnetism
1.1 Choice of crop	2.1 Types of food	3.1 Biotic and Abiotic components	4.1 Physical change	5.1 Air pollution	6.1 Man on the Moon	7.1 Force and area	8.1 Sound waves	9.1 Magnets and magnetic materials
1.2 Soil preparation	2.2 Carbohydrates	3.2 Feeding relationships	4.2 Chemical change	5.2 Soil pollution	6.2 Telescopes	7.2 Units of pressure	8.2 Amplitude and frequency	9.2 Types of magnets
1.3 Seed selection and sowing	2.3 Protiens	3.3 Plant and animal adaptations	4.3 Combustion	5.3 Water pollution	6.3 Spacecrafts and space shuttles	7.3 Pressure in gases and liquids	8.3 Transverse and longitudinal waves	9.3 Poles of a magnet
1.4 Irrigation	2.4 Fats	3.4 Ecological balance	4.4 Rusting	5.4 Treatment of polluted water	6.4 Spectroscope	7.4 Pneumatics	8.4 How human ear listens	9.4 Magnetic force
1.5 Fertilizers	2.5 Vitamins	3.5 Food chains, webs and energy flows	4.5 Crystallisation	5.5 Greenhouse effect	6.5 Types of artificial satellites and their uses	7.5 Atmospheric pressure	8.5 Difference between music and noise	9.5 Geomagnetism
1.6 Protection of crop	2.6 Lipids	3.6 Organisms and their habitats	4.6 Reversible and nonreversible changes	5.6 Ozone depletion	6.6 The International Space Station	7.6 Air resistance	8.6 Propagation of sound through solids	9.6 Electromagnetism
1.7 Harvesting	2.7 Mineral salts	3.7 Deforestation and reforestation	4.7 Chemical reaction	5.7 Global warming	6.7 Humanmade gadgets on Mars	7.7 Hydraulics	8.7 Propagation of sound through liquids	
1.8 Storage	2.8 Balanced diet	3.8 Biosphere reserve	4.8 Rearranging atoms	5.8 Carbon footprint	6.8 The Universe	7.8 Aerosols	8.8 Velocity of sound	
1.9 Sale of produce	2.9 Deficiency		4.9 Conservation of mass	5.9 Conservation of environment	6.9 Journey into space	7.9 Winds, storms and cyclones	8.9 Echo	

Learning Outcomes

LO1. Appreciate how key concepts and principles of science helped in enriching human life

LO2. Explore the application of science in new ways to benefit society locally as well as globally

LO3. Demonstrate efficient and responsible use of natural resources through scientific methods

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Note: Color coding represents common themes of topics across grades 6, 7 and 8