

Ministry of Education

NATIONAL GENERAL SCIENCE PACING GUIDE

Standard Version – 3 Years

GRADE 7 GENERAL SCIENCE

TERM I: CHRISTMAS TERM: SEPTEMBER – DECEMBER 2020

(Approx. 13 weeks)

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| WEEK | TOPIC/FOCUS |
| 1 Sept  21 - 25 | **Introduction to Science**  Definition of Science and Technology. Branches of Science. Jobs/Careers related to science. Lab Safety. Lab Apparatus – Identification and Uses.  Microscope – Parts and Uses  S.I. Measurements. Length, Mass, Time, Volume, Temp,  Units and Apparatus |
| 2 & 3  Sept 28 –  Oct 9th |
| 4 & 5  Oct 12 - 23 | **Living Things: Cells & Classification**  Definition of Cell  Typical Plant and Animal Cell  Specialized Animal and Plant Cell  Levels of organization with examples |
| 6 & 7  Oct 26 – Nov6 | **Characteristics of living Things**  Carl Linnaeus Classifying: Taxonomy  Kingdom, Phylum Class Order Family Genus Species |
| 8&9  Nov 9th -20th | **Five Kingdom Classification**  Virus Monera, Protista, Plantae and Animalia |
| 10  Nov 23 – 27 | **Matter**  Definition of Matter. Atoms States of Matter: Solid, Liquid, Gas |
| 11  Nov 30 – Dec 4th | Molecular Arrangement of Particles  Changes of State: Evaporation, Condensation, Freezing, Melting |
| 12  Dec 7th – 11th | Physical Vs Chemical Properties  Physical Vs Chemical Changes |



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| WEEK | TOPIC/FOCUS |
| 1 Sept  21 - 25 | **Health and Disease**  Definitions: health Science, Health Disease, 5 things needed for good health  Diet, Friends, Sleep Water, Exercise, Fresh Air, Relaxation,  Types of Disease Examples and Treatment  Deficiency, pathogenic, hereditary, physiological,  Food Preservation |
| 2 & 3  Sept 28 –  Oct 9th |
| 4 & 5  Oct 12 - 23 | **Flowering Plants**  Shoot System Vs. Root System  Leaf, Flower, Root Stem |
| 6 & 7  Oct 26 – Nov6 | **Periodic Table**  Atom, Common elements, Symbols and Uses  Trends in Groups (columns and Periods (rows)  Metals Vs Non Metals |
| 8&9  Nov 9th -20th | **Mixtures**  Define Mixture, aqueous, Solubility, Solute and Solvent  Solutions, Colloids and Suspensions  Types of solutions: Dilute, Saturated and supersaturated |
| 10  Nov 23 – 27 | **Separation of Mixtures**  Filtration and Distillation  Evaporation and Magnetism  Chromatography  Diffusion |
| 11  Nov 30 – Dec 4th |
| 12  Dec 7th – 11th | Osmosis |



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GRADE 9 GENERAL SCIENCE

TERM I: CHRISTMAS TERM: SEPTEMBER – DECEMBER 2020

(Approx. 13 weeks)

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| WEEK | TOPIC/FOCUS |
| 1 Sept  21 - 25 | **Classification**  Algae, Mosses & Liverworts, Ferns, Conifers, Flowering plants  Review parts of flowering plants. Monocotyledons Vs Dicotyledons  Parts of a seed. Germination and Conditions required  Pollination  Cross and Self,  Wind Vs Insect pollination |
| 2 & 3  Sept 28 –  Oct 9th |
| 4  Oct 12 - 16 | **Matter**  Water, Carbon Dioxide, salt and glucose |
| 5  Oct 19 - 23 | **Acids and Bases**  Use of pH scale  Properties, uses & examples of acids  Properties, uses & examples of Bases  Litmus paper Test for Acids and Bases  Names of Common Acids and Bases  Neutralization of Acids and Bases |
| 6 & 7  Oct 26 – Nov6 |
| 8&9  Nov 9th -20th | **Energy: Heat**  Movement of Heat: Conduction, convection and radiation  Scales/units on a thermometer Celsius, Fahrenheit Kelvin |
| 10  Nov 23 – 27 | Types of thermometer :clinical, Mercury and Alcohol |
| 11  Nov 30 – Dec 4th | Define expansion and contraction  Bimetallic Strip  Ball and Ring  Effects of heat on objects: solids, liquids and gases |
| 12  Dec 7th – 11th | Conductor Vs Insulator |