

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 Sept21 - 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 UsesS.I. Measurements. Length, Mass, Time, Volume, Temp,Units and Apparatus |
| 2 & 3Sept 28 –Oct 9th |
| 4 & 5Oct 12 - 23 | **Living Things: Cells & Classification**Definition of CellTypical Plant and Animal CellSpecialized Animal and Plant CellLevels of organization with examples |
| 6 & 7Oct 26 – Nov6 | **Characteristics of living Things**Carl Linnaeus Classifying: TaxonomyKingdom, Phylum Class Order Family Genus Species |
| 8&9Nov 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 |
| 11Nov 30 – Dec 4th | Molecular Arrangement of ParticlesChanges of State: Evaporation, Condensation, Freezing, Melting |
| 12Dec 7th – 11th | Physical Vs Chemical PropertiesPhysical Vs Chemical Changes |



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| WEEK | TOPIC/FOCUS |
| 1 Sept21 - 25 | **Health and Disease**Definitions: health Science, Health Disease, 5 things needed for good healthDiet, Friends, Sleep Water, Exercise, Fresh Air, Relaxation,Types of Disease Examples and TreatmentDeficiency, pathogenic, hereditary, physiological, Food Preservation |
| 2 & 3Sept 28 –Oct 9th |
| 4 & 5Oct 12 - 23 | **Flowering Plants**Shoot System Vs. Root SystemLeaf, Flower, Root Stem |
| 6 & 7Oct 26 – Nov6 | **Periodic Table**Atom, Common elements, Symbols and UsesTrends in Groups (columns and Periods (rows)Metals Vs Non Metals |
| 8&9Nov 9th -20th | **Mixtures**Define Mixture, aqueous, Solubility, Solute and SolventSolutions, Colloids and SuspensionsTypes of solutions: Dilute, Saturated and supersaturated |
| 10 Nov 23 – 27 | **Separation of Mixtures**Filtration and DistillationEvaporation and MagnetismChromatographyDiffusion |
| 11Nov 30 – Dec 4th |
| 12Dec 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 Sept21 - 25 | **Classification**Algae, Mosses & Liverworts, Ferns, Conifers, Flowering plantsReview parts of flowering plants. Monocotyledons Vs DicotyledonsParts of a seed. Germination and Conditions requiredPollination  Cross and Self, Wind Vs Insect pollination |
| 2 & 3Sept 28 –Oct 9th |
| 4 Oct 12 - 16 | **Matter**Water, Carbon Dioxide, salt and glucose |
| 5Oct 19 - 23 | **Acids and Bases**Use of pH scaleProperties, uses & examples of acidsProperties, uses & examples of BasesLitmus paper Test for Acids and BasesNames of Common Acids and BasesNeutralization of Acids and Bases |
| 6 & 7Oct 26 – Nov6 |
| 8&9Nov 9th -20th | **Energy: Heat**Movement of Heat: Conduction, convection and radiationScales/units on a thermometer Celsius, Fahrenheit Kelvin |
| 10 Nov 23 – 27 | Types of thermometer :clinical, Mercury and Alcohol |
| 11Nov 30 – Dec 4th | Define expansion and contractionBimetallic StripBall and RingEffects of heat on objects: solids, liquids and gases |
| 12Dec 7th – 11th | Conductor Vs Insulator |