

SUBJECT: SCIENCE AND ELEMENTARY TECHNOLOGY (SET)

NUMBER OF PERIODS PER WEEK: 6 PERIODS

GRADE: PRIMARY 5

DISTRIBUTION OF UNITS AND LESSONS IN WEEKS AND TERMS AS PER THE SYLLABUS

TERM 1

| UNIT 1: CARPENTRY TOOLS (9 PERIODS) | | | |
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| Key unit Competence: To use and maintain carpentry tools | | | |
| WEEKS | Contents | Periods | |
| Week 1 | 1. Identification of carpentry tools | 2 | |
| | 2. Usage and maintenance of measuring carpentry tools | 2 | |
| | 3. Usage and maintenance of hand carpentry tools | 2 | |
| Week 2 | 4. Dangers of carpentry tools | 1 | |
| | 5. Security measures against dangers of carpentry tools | 1 | |
| | 6. Assessment and remediation | 1 | |
| | UNIT 2: MASONRY TOOLS (7 PERIODS) | | |
| | Key unit Competence: To use and maintain masonry tools | | |
| Week 3 | 1. Identification of masonry tools | 1 | |
| | 2. Usage and maintenance of cement, stone and brick masonry tools | 2 | |
| | 3. Usage and maintenance of measuring masonry tools | 1 | |
| | 4. Usage and maintenance of other masonry tools | 1 | |
| | 5. Dangers of masonry tools | 1 | |
| | 6. Assessment and remediation | 1 | |

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| | UNIT 3: OBJECTS PRODUCTION (17 PERIODS) | | |
| | Key unit Competence: To make simple utility objects, toys and learning materials | | |
| | 1. Making a bicycle in sorghum straws sticks | 2 | |
| Week 4 | 2. Making a house in sorghum straws sticks | 2 | |
| | 3. Making Utility objects in wood: Wooden spoon | 2 | |
| | 4. Making Utility objects in wood: Hoe-handle | 2 | |
| Week 5 | 5. Making Learning materials: Making a trapezium in paper and manilla paper | 2 | |
| | 6. Making Learning materials: Making a rhombus in paper and manilla paper | 2 | |
| | 7. Making Learning materials: Making a parallelogram in paper and manilla paper | 2 | |
| Week 6 | 8. Maintenance of utility and learning objects: Keeping/storing them in a dry, cool and clean place | 1 | |
| | 9. Assessment and remediation | 2 | |
| | UNIT 4: COMPUTER MY FRIEND (12 PERIODS) | | |
| | Key unit Competence: To use data storage devices and data sharing | | |
| | | 1. Meaning of data | 2 |
| | | 2. Meaning and roles of memory | 1 |
| Week 7 | 3. Using internal memories | 2 | |
| | 4. Using flash disc | 2 | |
| | 5. Using DVD/CD | 1 | |
| | 6. Using external hard disc and memory card | 1 | |
| Week 8 | 7. Sharing and sending a document (e.g: Invitation) | 2 | |
| | 8. Assessment and remediation | 1 | |
| | UNIT 5: WRITING SKILLS (9 PERIODS) | | |
| Key Unit Competence: To perform write activity | | | |
| | 1. Creating, Inserting and labeling of table | 1 | |
| | 2. Manipulation of a table: Adding/removing columns or rows, typing | 2 | |
| Week 9 | 3. Inserting and labeling of image/picture | 2 | |

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| | 4. Manipulation of image /picture | 1 |
| | 5. Providing text relating to imploded image | 2 |
| | 6. Assessment and remediation | 1 |
| UNIT 6: COMPUTER RESEARCH (10 PERIODS) | | |
| Week 10 | Key unit Competence: To explore and use the Browse Activity and the use of E-mails (Sugar Interface) | |
| | 1. Meaning of browse and the uses of emails | 1 |
| | 2. Creation of email account | 2 |
| | 3. Communication by email | 1 |
| | 4. Access world map, the dictionary, the textbook and storybooks through browse | 2 |
| Week 11 | 5. Sharing the content from browse | 2 |
| | 6. Assessment and remediation | 2 |
| Weeks 12 & 13 | TERM 1 EXAMS | |

TERM 2

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| UNIT 7: PROGRAMMING FOR CHILDREN (22 PERIODS) | | |
| Key unit Competence: To perform arithmetic operations, draw geometric shapes (parallelogram, rhombus, trapezium, regular polygons) using Turtle Art Activity and create dialogue and cartoons using Scratch Activity. | | |
| WEEKS | Contents | Periods |
| WEEK 1 | 1. Drawing a parallelogram using turtle art instructions | 2 |
| | 2. Drawing a rhombus trapezium using turtle art instructions | 2 |
| | 3. Drawing regular polygons using turtle art instructions | 2 |
| Week 2 | 4. Addition and subtraction using turtle art instructions | 2 |
| | 5. Multiplication and division using turtle art instructions | 2 |
| | 6. Painting in scratch program | 1 |
| | 7. Importing and using camera in scratch program | 1 |
| Week 3 | 8. Creating and organization of a dialogue using scratch commands | 2 |
| | 9. Manipulation of scratch script | 2 |
| | 10. Background setting of sprite | 2 |

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| Week 4 | 11. Sound setting of sprites | 2 |
| | 12. Assessment and remediation | 2 |
| | UNIT 8: WATER (16 PERIODS) | |
| | Key Unit Competence: To purify water for drinking and explain dangers of polluted water | |
| | 1. Identification of importance of water | 1 |
| | 2. Identification of sources of water | 1 |
| Week 5 | 3. Identification of properties of water | 1 |
| | 4. Water cycle | 2 |
| | 5. Effects of rain water | 1 |
| | 6. Prevention of dangers of rain water | 2 |
| Week 6 | 7. Identification of water pollutants | 1 |
| | 8. Dangers and prevention of water pollution | 2 |
| | 9. Water purification methods | 2 |
| | 10. Water storage (Portable water for drinking, Water for general purpose use.) | 1 |
| Week 7 | 11. Assessment and remediation | 2 |
| | UNIT 9: SOIL (15 PERIODS) | |
| | Key unit Competence: To prepare the soil for cultivation and use fertilizers | |
| | 1. Preparation of ploughing soil | 2 |
| | 2. Preparation of harrowing soil | 2 |
| Week 8 | 3. Levelling of soil for cultivation | 2 |
| | 4. Fertilization of soil | 2 |
| | 5. Importance of fertilizers | 2 |
| Week 9 | 6. Rules of applying organic fertilizers | 2 |
| | 7. Rules of applying artificial fertilizers | 2 |
| | 8. Assessment and remediation | 1 |
| | UNIT 10: ANIMALS (15 PERIODS) | |
| | Key unit Competence: To explain and practice effective chicken farming | |

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| | 1. Conditions of good chicken house | 2 |
| Week 10 | 2. Types of chicken breeds | 1 |
| | 3. Reproduction of chickens | 2 |
| | 4. Proper feeding of chickens | 1 |
| | 5. Chicken parasitic diseases | 1 |
| Week 11 | 6. Chicken infectious diseases | 2 |
| | 7. Prevention of chicken diseases | 1 |
| | 8. Importance of chicken farming | 2 |
| | 9. Chicken farming process | 1 |
| Weeks 12 & 13 | TERM 2 EXAMS | |

TERM 3

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| Week 1 | UNIT 10: ANIMALS (Continued) | |
| | Key unit Competence: To explain and practice effective chicken farming | |
| | 10. Assessment and remediation | 2 |
| | UNIT 11: PLANTS AND ENVIRONMENT (11 PERIODS) | |
| | Key unit Competence: To explain the importance of plants and deforestation's effects on the environment | |
| | 1. Identification of importance of plants | 2 |
| Week 2 | 2. Common importance of trees on environment | 2 |
| | 3. Other importance of trees: Ornamental trees, fruit trees, agroforestry trees, timber trees, fuel tree | 2 |
| | 4. Afforestation and its importance on environment | 1 |
| | 5. Deforestation and its effects on environment | 2 |
| | 6. Prevention of deforestation | 1 |
| Week 3 | 7. Assessment and remediation | 1 |
| | UNIT 12: DIGESTIVE SYSTEM (10 PERIODS) | |
| | Key unit Competence: To explain different stages of digestion and prepare a balanced diet | |

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| | 1. Parts and function of digestive system: Alimentary canal and digestive glands | 1 |
| | 2. Identification of stages of digestion: Ingestion, digestion, absorption/ assimilation, elimination/ejection | 2 |
| | 3. Hygiene of digestive system | 1 |
| | 4. Components of balance diet: Body building food, energy giving food and protective food | 1 |
| | 5. Identification of balanced diet elements: Carbohydrates, proteins, minerals, water, lipids and vitamins | 1 |
| Week 4 | 6. Nutrition deficiency diseases: Kwashiorkor, marasmus, rickets, goiter, anemia | 1 |
| | 7. Prevention of nutritional deficiency diseases | 1 |
| | 8. Preparation of a balanced diet | 1 |
| | 9. Assessment and remediation | 1 |
| | UNIT 13: REPRODUCTIVE SYSTEM (18 PERIODS) | |
| | Key unit Competence: To practice hygiene and recognize sexual characteristics and responsible behaviour | |
| | 1. Functions of human reproductive system: External male and females organs | 2 |
| Week 5 | 2. Functions of human reproductive system: External male and females organs (Continued) | 2 |
| | 3. Hygiene of the male and female genital organs | 2 |
| | 4. Primary Sexual characteristics in human | 2 |
| Week 6 | 5. Puberty characteristics in boys | 2 |
| | 6. Puberty characteristics in girls | 2 |
| | 7. Safe responsible behavior and choices | 2 |
| Week 7 | 8. Safe responsible behavior and choices (Continious) | 2 |
| | 9. Assessment and remediation | 2 |
| | UNIT 14: LIGHT (7 PERIODS) | |
| | Key unit Competence: To demonstrate the existence of light, explore its properties and transmission according to intensity | |
| | 1. Types of medium for light propagation (Transparent, Translucent and opaque) | 1 |
| | 2. Propagation of light in straight line | 1 |
| Week 8 | 3. Reflection of light | 2 |

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| | 4. Refraction of light | 2 |
| | 5. Assessment and remediation | 1 |
| | UNIT 15: ELECTRICITY (10 PERIODS) | |
| | Key unit Competence: To construct, manage an electric circuit and explain its importance | |
| | 1. Importance of electricity | 1 |
| Week 9 | 2. Production of electricity (using a simple dynamo and human power; Solar panel) | 2 |
| | 3. Common tools and materials used in electricity | 2 |
| | 4. Constructing and Controlling Simple electric circuit | 2 |
| Week 10 | 5. Dangers of electricity | 2 |
| | 6. Assessment and remediation | 1 |
| | UNIT 16: MATERIALS (10 PERIODS) | |
| | Key unit Competence: To classify materials according to their properties in metals and non-metals, and calculate their density | |
| | 1. Classification of materials: Nonmetals, Metals | 2 |
| | 2. Physical properties of metals | 1 |
| Week 11 | 3. Uses of common metals | 2 |
| | 4. Density: Definition and Calculation | 1 |
| | 5. Relative density and its applications | 2 |
| | 6. Assessment and remediation | 1 |
| Weeks 12 &13 | TERM 3 EXAMS | |