SUBJECT: SCIENCE AND ELEMENTARY TECHNOLOGY (SET)

NUMBER OF PERIODS PER WEEK: 6 PERIODS

GRADE: PRIMARY 6

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

TERM 1

UNIT 1: MECHANICS AND BLACKSMITH TOOLS (8 PERIODS) Key unit Competence: To use and maintain mechanics and blacksmith tools safely			
			WEEKS
Week 1	1. The common Mechanics tools	2	
	2. Use and maintenance of mechanics tools	1	
	3. Dangers and precautions when using mechanics tools	1	
	4. The common Blacksmith tools	1	
	5. Use and maintenance of blacksmith tools	1	
Week 2	6. Dangers and precautions when using blacksmith tools	1	
	7. Assessment and remediation	1	
	UNIT 2: SIMPLE MACHINES (10 PERIODS)		
	Key unit Competence: To classify simple machines and levers		
	1. Definition of simple machine and difference between Simple machine and other materials	2	
	/tools		
Week 3	2. Types and characteristics of simple machines	2	
	3. Introduction to Levers: Definition, Parts of levers	2	
	4. Classes of levers	2	
	5. Dangers and Safety in the use of simple machines	1	

	6. Assessment and remediation	1
Week 4	UNIT 3: OBJECTS PRODUCTION (12 PERIODS)	
	Key unit Competence: To make toys, utility and learning objects	
	1. Making toys (dolls and animals) using clay	2
	2. Making toys using wires	1
	3. Making socks in threads	1
	4. Making scarf in threads	2
Week 5	5. Making hat in threads	1
	6. Making gloves in threads	1
	7. Making regular polygons in paper	1
	8. Making solids in paper	1
	9. Maintenance of utility and learning objects	1
	10. Assessment and remediation	1
Week 6	UNIT 4: WRITING SKILLS (17 PERIODS)	
	Key unit Competence: To perform write activity	
	1. Identification of elements of Gnome environment	1
	2. Work with a document	2
	3. Folder management	1
	4. Identification of elements of Abiword window	2
Week 7	5. Text formatting	1
	6. Spread sheet environment	2
	7. Create, save and open a workbook Cell basics	1
	8. Modifying columns, rows and cells	1
	9. Formatting a cell	1
Week 8	10. Worksheet Basics	2
	11. Mathematical operators basics	2
	12. Assessment and remediation	1
	UNIT 5: COMPUTER RESEARCH (11 PERIODS)	

	Key unit Competence: To Explore and use search engines		
	1. Introduction to search engine	1	
Week 9	2. Search engine techniques	2	
	3. Types of search engines	2	
	4. Example and search engines	2	
Week 10	5. Search information using different search engine	2	
	6. Assessment and remediation	2	
	UNIT 6: PROGRAMMING FOR CHILDREN (25 PERIODS) 1 ST Part of 8 periods Key unit Competence: To design and construct geometric shapes using Turtle Art Activity and design		
	different projects in scratch and use Etoys Activities		
	Contents	Periods	
	1. Displaying text and numbers	2	
Week 11	2. Displaying image and audio	2	
	3. Drawing irregular polygons in turtle art	2	
	4. Programming animations and computing in Scratch	2	
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TERM 2

UNIT 6: PROGRAMMING FOR CHILDREN (2 nd part of 17 periods) Key unit Competence: To design and construct geometric shapes using Turtle Art Activity and design different projects in scratch and use Etoys Activities					
			Weeks	Contents	Periods
			Week 1	5. Scratch project	2
	6. Working with stage in Scratch	2			
	7. Creating animated stories in Scratch	2			
Week 2	8. Determining angles and shapes	2			
	9. Determining areas and working out averages	2			

	10. Identification of elements of Etoys environment	2	
Week 3	11. Adding drawings to the book and painting the background	2	
	12. Etoys projects and animation	2	
	13. Assessment and remediation	1	
	UNIT 7: AIR POLLUTION (10 PERIODS)	•	
	Key unit Competence: To explain the phenomenon of air pollution, its consequ	ences and management	
	1. Definition of air pollution and common air pollutants	1	
Week 4	2. Sources of common air pollutants	3	
	3. Consequences of polluted air	3	
Week 5	4. Protection of air against pollutants	2	
	5. Assessment and remediation	1	
	UNIT 8: ANIMALS (14 PERIODS)		
	Key unit Competence: To explain and practice effective management of goats	t of goats and cows	
	1. Characteristics of a good cowshed/ goat shelter	1	
	2. Types of cattle and goat breeds	2	
Week 6	3. Characteristics of cattle and goat breed to rear	2	
	4. Proper feeding of cows and goats	2	
	5. Cattle health sanitation conditions	2	
Week 7	6. Common diseases of cattle/goat	2	
	7. Importance of cattle/goat farming	2	
	8. Assessment and remediation	1	
	UNIT 9: PLANT REPRODUCTION (10 PERIODS)		
	Key Unit Competence: To describe the parts of a flower and explain the proces	n the process of sexual and asexual	
	reproduction in plants		
	1. Identification parts of a complete flower	1	
Week 8	2. Definition of plant reproduction	2	
	3. Sexual reproduction of flowering plants	2	
	4. Asexual reproduction methods	2	

Week 9	5. Reasons for plants reproduction	2	
	6. Assessment and remediation	1	
	UNIT 10: SUSTAINABLE WASTE MANAGEMENT (10 PERIODS)		
	Key unit Competence: To apply garbage collection techniques and separate hazardous, organic and		
	recyclable waste materials		
	1. Classification of waste	2	
	2. Sources of waste: Municipal, medical and agricultural	1	
Week 10	3. Sources of waste: Automobiles and construction	2	
	4. Sources of waste: Electronics and industrial	2	
	5. Waste management techniques	2	
Week 11	6. Assessment and remediation	1	
	UNIT 11: CIRCULATORY SYSTEM (12 PERIODS) 1 st part		
	Key Unit Competence: To describe and explain the functioning of the circulatory system, its hygiene and		
	maintenance		
	1. Organs and main function of circulatory system	3	
	2. Structure of the heart	2	
Week 12&13	TERM 2 EXAMS		

TERM 3

UNIT 11: CIRCULATORY SYSTEM (2 nd part)		
Key Unit Competence: To describe and explain the functioning of the circulatory system, its hygiene and maintenance		
Weeks	Contents	Periods
Week 1	3. The process of blood Circulation	1
	4. Blood vessels	1
	5. Components of blood	1
	6. Caring for our bodies and health	1
	7. Diseases/conditions of circulatory system	1

	8. Blood pressure measurement	1	
Week 2	9. Assessment and remediation	1	
	UNIT 12: RESPIRATORY SYSTEM (10 PERIODS)		
	Key Unit Competence: To explain the mechanism of respiration		
	1. Organs of the human respiratory system and their main function	2	
	2. Mechanism of respiration (breathing)	2	
	3. Good health practices and behaviors	1	
Week 3	4. Diseases of respiratory system	2	
	5. Suffocation	2	
	6. Assessment and remediation	1	
	UNIT 13: REPRODUCTIVE SYSTEM (16 PERIODS)		
	Key unit Competence: To explain the function of male and female genital organs, the STIs and ways of		
	preventing unplanned pregnancy		
	1. Main function of reproductive system	1	
Week 4	2. Male reproductive organs and their functions (External and internal organs)	2	
	3. Female reproductive organs and their functions (External and internal organs)	2	
	4. Preventing unplanned Pregnancy	2	
Week 5	5. Sexually transmitted infections	2	
	6. Means of transmission of common STIs/HIV	2	
	7. Prevention and treatment of common STIs/HIV	2	
Week 6	8. Living Positively with HIV and AIDS	2	
	9. Assessment and remediation	1	
	UNIT 14: ENERGY MANAGEMENT (12 PERIODS)		
	Key Unit Competence: To understand the use of energy and its transformations fro	m one form to another	
	1. Definition and forms of energy	2	
	2. Energy transformation/energy conversion	1	
Week 7	3. Importance of energy	2	
	4. Sources of energy	2	

	5. Renewable and non-renewable energy	2	
Week 8	6. Advantage of using renewable energy	2	
	7. Assessment and remediation	1	
	UNIT 15: MAGNETISM (11 PERIODS)		
	Key unit Competence: To explain and demonstrate the existence of magnetic forces and magnetic field		
	1. Definition and Types of magnets	1	
	2. Making a temporary magnet	2	
Week 9	3. Characteristics of magnets	2	
	4. Magnetic forces and magnetic materials	2	
	5. Magnetic field	2	
Week 10	6. Magnetic compass and uses of magnets	1	
	7. Assessment and remediation	1	
	UNIT 16: STATES OF MATTER (10 PERIODS)		
	Key Unit Competence: To demonstrate and explain changes of state of matter		
	1. Definition of matter and its states	2	
	2. Properties of the three states of matter (in terms of shape and volume)	2	
Week 11	3. Change of state in water	1	
	4. Changes in states of water in the water cycle	2	
	5. Transformation of states of matter	2	
	6. Assessment and remediation	1	
Week 12&13	TERM 3 EXAMS		