

SUBJECT: SCIENCE AND ELEMENTARY TECHNOLOGY (SET)

NUMBER OF PERIODS PER WEEK: 6 PERIODS

GRADE: PRIMARY 4

CONTENT DISTRIBUTION IN WEEKS AND TERMS

TERM 1

Weeks	Units & Lessons	Periods
UNIT 1: AGRICULTURAL TOOLS (12 PERIODS)		
Key Unit Competence: To use and maintain agricultural tools safely		
WEEK 1	1. The common Agriculture tools	2
	2. Uses of agriculture tools	2
	3. Maintenance of agricultural tools	2
Week 2	4. Storage of agriculture tools	1
	5. Dangers of the misuse of agricultural tools	2
	6. Precaution when using agricultural tools	2
	7. Assessment of unit 1	1
UNIT 2: OBJECTS PRODUCTION (13 PERIODS)		
Key Unit Competence: To make play utility and learning objects		
Week 3	1. Making toy bicycles and dolls	2
	2. Making toy animals and motorcycles	2
	3. Making utility objects in sticks: basket	2
Week 4	4. Making utility objects in banana fibre: dustbin, mat	2
	5. Making learning materials in paper: Triangle, rectangle and square	2
	6. Maintenance of utility and learning objects	2
Week 5	7. Assessment of unit 2	1

	UNIT 3: COMPUTER MY FRIEND (21 PERIODS)	
	Key Unit Competence: To use common ICT terms and differentiate Sugar and Gnome user interfaces	
	1. Computer: definition, role, switch on/off	1
	2. Data and Information: Typing text from the keyboard	2
	3. Communication: definition, role, call/send messages	2
Week 6	4. Technology: type a text, call, send messages	1
	5. Internet, Website, WWW	2
	6. Activity (open, close) and Project	1
	7. Digital and Analogue	1
	8. Hardware (Keyboard, touchpad) and Software(activities)	1
Week 7	9. Sugar interface Search in home (Display quickly an activity), Favorite view, List view	2
	10. Gnome interface	2
	11. Use of the Journal	2
Week 8	12. Search and retrieve a saved document in the Journal	2
	13. Assessment of unit 3	2
	UNIT 4: WRITING SKILLS (9 PERIODS)	
	Key Unit Competence: To perform write activity	
	1. Text selection	2
Week 9	2. Text formatting	2
	3. Save and open; - Share and Collaboration	2
	4. The Keyboard and Touchpad	2
Week 10	5. Assessment of unit 4	1
	UNIT 5: GRAPHICS AND MULTIMEDIA (7 PERIODS)	
	Key Unit Competence: To use paint activity to draw and color different shapes and to enhance project work	
	1. Paint application: Definition and role	1
	2. Starting the Paint Activity	1
	3. Paint window(environment)	2
	4. Drawing using free hands	1

	UNIT 5: GRAPHICS AND MULTIMEDIA (Continuation)	
Week 11	5. Drawing Geometric shapes	1
	6. Assessment of unit 5	1
	UNIT 6: PROGRAMMING FOR CHILDREN (22 PERIODS)	
	Key Unit Competence: To design and construct geometric shapes in Turtle art activity and create animations using Scratch Activity	
	1. Turtle art and its main toolbar	2
	2. Palettes tool bar of turtle	2
Week 12 &13	END OF TERM 1 EXAMS	

TERM 2

Week 1	UNIT 6: PROGRAMMING FOR CHILDREN (Continued)	
	3. Using turtle art instructions: Forward, back, left, right, arc, clean	2
	4. Drawing vertical, horizontal and oblique lines	2
	5. Drawing square, rectangle and circle	2
Week 2	6. Save a document, close and open Turtle Art activity	2
	7. Components of Scratch window	2
	8. Object animations: Choosing new sprite from file and changing background	2
Week 3	9. Object animations: Adding blocks to scripts and playing scripts	2
	10. Save and open a project, close and open scratch activity	2
	11. Assessment of unit 6	2
Week 4	UNIT 7: AIR, WIND AND SOUND (16 PERIODS)	
	Key unit Competence: To explain properties and importance of air and effects of wind as well as sound in surrounding environment	

	1. Main Properties of air	1
	2. Composition of air and use of air components	2
	3. Dangers of components of air including Global warming	2
	4. Wind and its types	1
Week 5	5. Use of air and wind	2
	6. Dangers of wind	1
	7. Prevention of dangers of wind	2
	8. Nature and production of Sound	1
Week 6	9. Propagation, transmission, and reflection of sound	1
	10. Sound, noise, and damaging effects of noise	1
	11. Protection of ears from noise	1
	12. Assessment of unit 7	1
	UNIT 8: SOIL (12 PERIODS)	
	Key Unit Competence: To choose good soil and prevent it from erosion	
	1. Definition and types of soil	2
Week 7	2. Composition of soil	2
	3. Uses of soil	1
	4. Characteristics of fertile soil	2
	5. Soil erosion and its causes	1
Week 8	6. Types of erosion	2
	7. Prevention of erosion	1
	8. Assessment of unit 9	1
	UNIT 9: ANIMALS (14 PERIODS)	
	Key Unit Competence: To classify the animals according to their backbone, locomotion, feeding, reproduction, and respiration mode.	
	1. Animal classification according to a backbone	2
Week 9	2. Classes of vertebrates (Introduction)	2
	Class of mammals	

	3. Class of birds	1
	4. Class of fish	1
	5. Class of reptiles	1
	6. Class of amphibians	1
	7. Invertebrates	1
	8. Animal classification according to respiration mode	1
	9. Animal classification according to the locomotion mode	1
Week 10	10. Animal classification according to the feeding mode	1
	11. Animal classification according to their reproductive mode	1
	12. Assessment of unit 9	1
UNIT 10: ANIMALS MANAGEMENT (12 PERIODS) (First part: Periods: 6)		
Key Unit Competence: To explain and practice the rabbit keeping		
Week 11	1. Conditions of good rabbit hutch	2
	2. Characteristics of good rabbits	2
	3. Criteria for choosing rabbits to rear	1
	4. Assessment of unit 10 (First part)	1
Week 12&13	END OF TERM 2 EXAMS	

TERM 3

UNIT 10: ANIMALS MANAGEMENT (Second part: 6 Periods)		
Key Unit Competence: To explain and practice the rabbit keeping		
WEEKS	Contents	Periods
WEEK 1	5. Proper feeding of rabbits	2
	6. Rabbit health	1
	7. Common diseases in rabbit	1
	8. Importance of rabbit farming	1
	9. Assessment of unit 10 (Second part)	1

UNIT 11: PLANTS (12 PERIODS)		
Key Unit Competence: To demonstrate stages of germination and establish the relationship between parts of plants and their function		
Week 2	1. Definition and conditions of germination	2
	2. Types of germination	2
	3. Stages of germination	2
Week 3	4. Types of plants	2
	5. Parts of the plant	2
	6. Functions of parts of the plant	1
	7. Assessment of unit 11	1
UNIT 12: HUMAN SENSORY ORGANS (27 PERIODS)		
Key Unit Competence: To explain the structure, function and maintenance of the human sensory organs		
Week 4	1. Functional mechanism of all sensory organs	2
	2. Structure, function, and maintenance of the skin	2
	3. Skin diseases, accidents, and accidents first aid	2
Week 5	4. Structure, function, and maintenance of the tongue	2
	5. Hygiene and care of the tongue	2
	6. Tongue disorders and accidents	2
Week 6	7. Structure, function, and maintenance of the nose	2
	8. Diseases of the nose and their causes	1
	9. Prevention of nose diseases	1
	10. Structure, function, and maintenance of the ear	2
Week 7	11. Hygiene of the ear	1

	12. Diseases of the ear and their causes	1
	13. Structure, function and maintenance of the eye	2
	14. Eye defects and their corrections	2
Week 8	15. Prevention of eye defects	2
	16. Assessment of unit 12	1
	UNIT 13: HUMAN SKELETON (13 PERIODS)	
	Key unit Competence: To describe the human skeleton and explain its functions and maintenance	
	1. Main parts and major bones of the skeleton	2
	2. Functions of the skeleton	1
Week 9	3. Accidents of bones	1
	4. Bone diseases and deformation of the vertebral column	2
	5. Hygiene of the skeleton	2
	6. Prevention of accidents	1
Week 10	7. Prevention of bone diseases and deformation of the vertebral column	2
	8. Assessment of unit 13	2
	UNIT 14: MUSCLES (8 PERIODS)	
	Key unit Competence: To identify and explain the functions and maintenance of muscles	
	1. Main groups of muscles	2
Week 11	2. Major voluntary and functions of muscles of the human body	2
	3. Accidents of muscles and first aid	2
	4. Hygiene of the muscles, prevention of muscle accident	1
	5. Assessment of unit 14	1
Week 12 & 13	END OF YEAR ASSESSMENT	