**REPUBLIC OF RWANDA**

**KIGALI CITY**

**GASABO DISTRICT**

**SCHEME OF WORK ACADEMIC YEAR: 2022/2023**

**SUBJECT: SET CLASS: P4**

**SCHOOL:………...**

**TEACHER’S NAME:………………………………………………………………**

**NUMBER OF PERIOD:**

**TERM I**

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| **WEEKS and DATES** | **UNIT TITLE** | **CONTENT(LESSONS)AND EVALUATION** | **RESSOURCES&REFERENCES** | **LEARNING ACTIVITIES** | **OBSERVATION** |
| **Week1**  **26-30/09/2022** | **Unit 1:Agricultural tools(10periods)** | ▪Identification of agricultural tools  ▪Uses of agriculture tools  ▪Maintenance of agricultural tools | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Observation in class…  -Visiting agricultural farm  -Role play about the use of and care for agricultural tools  -Group work to discuss about the prevention against possible dangers of misusing of agricultural tools and makes presentation |  |
| **Week2**  **03-07/10/2023** | ▪Storage of agricultural tools  ▪dangers of the misuse of agricultural tools  ▪Precaution when using agricultural tools  ▪Unit Review Exercises |  |
| **Week3**  **10-14/10/2022** | **UNIT2**  **OBJECTS PRODUCTION(14periods)** | ▪Making toys in clay and wires  ▪Making utility objects in sticks  ▪Making utility object in banana fibres | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Brainstoming  -Practical group work  -Project |  |
| **Week4**  **17-21/10/2022** | ▪Making learning materials in papers  ▪Maintenance of utilities and learning objects  ▪Unity review exercises | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Discussion in small groups about the maintenance of various objects produced |  |
| **Week5**  **24-28/10/2022** | **UNIT3**  **COMPUTER MY FRIEND:16periods** | ▪Common ICT Terms used in ICT field  ▪Sugar interface  ▪Gnome interface | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Exercises on switching the computer on and off.  -Practice typing a text. |  |
| **Week6**  **31/10-04/11/2022** |  | ▪Major components of GNOME Interface Desktop  ▪Switching to sugar from GNOME  ▪The journal  ▪Unit review exercises |  | -Individual exercises  on calling and sending message. |  |
| **Week7**  **07-11/11/2022** | **UNIT 4**  **WRITING SKILLS:8 periods** | ▪Text formatting  ▪Text selection | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Exercises on changing font type,enlarging font size.  -Exercises on changing text colours,typing,moving and checking spelling in the text. |  |
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| **Week8**  **14-18/11/2022** |  | ▪The keyboard and touchpad  ▪Unit review exercises |  | -Individual exercises on using a frame key also reducing and adding volume.  -Practise on using the left and right click on the touchpad.  -Practise using arrow keys to move the cursor downward,upward and in different ways.  -Individual exercises |  |
| **Week 9**  **21-25/11/2022** | **UNIT5**  **GRAPHICS AND MULTIMEDIA** | ▪Paint application  ▪Toolbar  ▪Drawing with free hands  ▪Drawing using shapes | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Exercises on drawing variant shapes commonly met at home,atschool,and in their environment |  |
| **Week10**  **28/11-02/12/2022** |  | ▪comment on a picture  ▪Saving and closing an activity  ▪Opening a saved activity  ▪Unit review exercises |  | -Practice editing and cropping images made by other activities |  |
| **Week 11**  **05-09/12/2022** | **GENERAL REVISION** | | | | |
| **Week1212-16/12/2022** | **EXAMINATIONS PERIOD AND SUPERVISION OF EXAMINATIONS** | | | | |
| **Week 13**  **19-23/12/2022** | **MARKING,MAKING SCHOOL REPORTS PERIOD AND CLOSING THE FIRST TERM** | | | | |

**TERM II**

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| **Week1**  **09-13/01/2023** | **UNIT6**  **PROGRAMMING FOR CHILDREN:20 periods** | ▪Turtle Art  ▪Elements of a Turtle Art Window | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Practicing how to drag and drop the blocks.  -Practicing how to delete a block. |  |
| **Week2**  **16-20/01/2023** |  | ▪Using Turtle Art instructions |  | -In pair work exercises on correctly.  -Individualy exercises on drowing. |  |
| **Week3**  **23-27/01/2023** |  | ▪Drawing  ▪Saving a document closing and opening Turtle Art Activity. |  | -Practicing and learning on choosing sprite,changing costumes and backgrounds |  |
| **Week4**  **30/01-03/02/2023** |  | ▪Scratch Window  ▪Object Animations  ▪Unit Review Exercises |  | -Exercises on creating animations. |  |
| **Week5**  **06-10/02/2023**  **Week6**  **13-17/03/2023** | **UNIT7**  **AIR,WIND AND SOUND:14 periods** | -Main properties of Air  -Explanation on use of air composition  -Dangers of components of air  -Types of wind  -use of air and wind  -Dangers of wind and instrument to measure wind:anemometer  -Prevention of dangers of wind  -Sound production  -Sound propagation and transmission  -Production of echo  -Reflection of sound and noise  -Damaging effect of noise  -Protection of ear from noise.  -Unit Review Exercises | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Practical work to demonstrate that air has weight,occupies space and can be compressed  -Performing an experiment to prove the existence of oxygen in air and its utility.  -Investigation:to prove the utility of carbon dioxide for green plants  -Investigation:The dangers of carbon monoxide  -Discuss how we know it is windy  -Practical:collect millet,sorghum,winnower to practice.  -Project:collect various samples of seedlings,plant tree and do a follow up.  -Field trip:visit area spoiled by wind to compare the effects of the wind in the environment.  -Brainstorming:to gain understanding of the nature of the sound  -Group discussion  -Role play  -Practical:in small groups use two tubes to illustrate the sound reflection.  -Produce sound and noise and discuss their differences  -Discuss the damaging effects of noise  -Discuss ways of protecting ears from noise. |  |
| **Week7**  **20-24/02/2023** | **UNIT8**  **SOIL:12 periods** | -Definition of soil  -Types of soil  -Composition of soil  -Use of soil  -Characteristics of fertile soil | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Observe various samples of soil collected from different sites.  -Field visit in school surrounding to investigate the suitable use of each type of soil. |  |
| **Week8**  **27/02-03/03/2023** |  | -Soil erosion  -Agents of soil erosion  -Causes of soil erosion  -Types of soil erosion  -Prevention of soil erosion  -Unit Review Exercises |  | -To carry out an investigation  -Visiting farms to gain experience on how to prevent and control soil erosion. |  |
| **Week9**  **06-10/03/2023** | **UNIT 9**  **ANIMALS:12 periods** | -Classification of animals according to the backbone  -Classification of animals according to the respiration mode  -Classification of animals according to the locomotion mode  -Classification of animals according to thefeeding mode  -Unit Review Exercises | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | -Group work:Classification of animals in our surroundings and group them according to their major characteristics  -Group work to discuss about the respiration of vertebrates  -visiting the school surrounding,discuss how animals move,feed and reproduce.  -Group work to discussabout differentways of animalsbreathing and experiment with insect |  |
| **Week 10**  **13-17/03/2023** | **GENERAL REVISION** | | | | |
| **Week11**  **20-24/03/2023** | **EXAMINATIONS PERIOD AND SUPERVISION OF EXAMINATIONS** | | | | |
| **Week12**  **27-31/03/2023** | **MARKING,MAKING SCHOOL REPORTS PERIOD AND CLOSING THE SECOND TERM** | | | | |

**TERM III**

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| **Week1**  **17-21/04/2023** | **Unit10:**  **Animals management: 12 periods** | ▪Conditions of good rabbit hutch  ▪Characteristics of good rabbits  ▪Criteria for choosing rabbits to rear | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | ▪Field visits of different rabbit farms, make observations and group discussions aiming to outline the conditions of good rabbit hutch.  ▪Group discussion regarding characteristics of good male and good female rabbit to cross.  ▪Group discussion the practice of good feeding and hygiene for rabbits.  ▪Collecting hay, good high fiber pellet, fresh vegetables and clean water to feed rabbits.  ▪Research using library books / searchengines , then group discussion oncommon diseases of rabbits.  ▪Making group discussion on the importance of rabbit farming.  ▪At school( especially rural schools) ,learners implement a small scale cuniculture project. |  |
| **Week2**  **24-28/04/2023** |  | ▪Proper feeding of rabbits  ▪Rabbit health  ▪Common diseases  ▪Importance of rabbit farming  ▪Unit Review Exercises |  | ▪They will feed them,clean the hutch and diagnose for possible diseases. |  |
| **Week3**  **01-05/05/2023** | **Unit11:**  **Plants:14 periods** | ▪Definition of germination  ▪Conditions of germination  ▪Types of germination  ▪Stages of germination | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | ▪Observation : Take learners out of the classroom and guide them in observing a variety of plants and record information.  ▪Project : In the classroom corner carry out an investigation on the germination of beans and maize seeds. |  |
| **Week4**  **08-12/05/2023** |  | ▪Types of plants  ▪Functions of parts of the plant  ▪Unit Review Exercises |  | ▪Visit the school surrounding to observe,name different parts of plant and discuss their functions.  ▪Plant a variety of seeds and maintain new plants in the school to protect its environment. |  |
| **Week5**  **15-19/05/2023** | **Unit12**  **Human sensory organs:25 periods** | ▪Functional mechanism of all sensory organs  ▪Structure,function and maintenance of skin | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | ▪Group research on functional mechanism of all sensory organs from library or search engines.  ▪Observation: In small groups. |  |
| **Week6**  **22-26/05/2023** |  | ▪Structure,function and maintenance of tongue  ▪Structure,function and maintenance of nose |  | ▪Observation: Learners observe on the wall chart and name different zones of the tongue then draw in their exercises book.  ▪Observation: Learners observe on the wall chart and the name different parts of the nose then draw in their exercises book. |  |
| **Week7**  **29/05-02/06/2023** |  | ▪Structure,function and maintenance of ear  ▪Structure,function and maintenance of eye  ▪Unit Review Exercises |  | ▪Observation: Learners observe on the wall chart and name different parts of the ear then draw in their exercises book.  ▪Observation:Under teacher’s guidance, learners observe on the wall chart name different parts of the eye then draw the same in their exercises book. |  |
| **Week8**  **05-09/06/2023** | **Unit13:**  **Human skeleton:10 periods** | ▪Main parts and major bones of skeleton  ▪Function of skeleton  ▪Accidents of bones | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | ▪Observation:Under teacher’s guidance, learners observe on the wall chart and refer to their own body then name different parts of the skeleton and draw in their exercises book. |  |
| **Week9**  **12-16/06/2023** |  | ▪Bone diseases  ▪Hygiene of skeleton  ▪Prevention of bone diseases and deformation of the vertebral columns  ▪Unit Review Exercises |  | ▪Discussions: In the small use the picture(diagram/ drawing ) and refer to their own body to discuss the functions of the skeleton, the share with the whole class  ▪Discussion: Make group discussion to find out good practices of maintaining the skeleton and avoiding accidents .  ▪Role─play simulation: As first aid,apply a splint on an arm or leg  ▪Group research on various bone diseases from library charts and search engines.  ▪Demonstration and practical:Practice some techniques of maintaining a healthy skeleton:sitting position, physical exercises, as part of hygiene. |  |
| **Week10**  **19-23/06/2023** | **Unit14:**  **Muscles: (8periods)** | ▪Main groups of muscles  ▪Major voluntary muscles of the human body  ▪Functions of voluntary muscles  ▪Accident of muscles(cramp) and First Aid  ▪Hygiene of muscles  ▪Prevention of accidents  ▪Unit Review Exercises | Science and Elementary Technology pupil’s book Primary4  REB &SPOTLIGHT | ▪Demonstration: Touch the body, contract muscles and make movements of related organs in order to discover the main muscles of the head , the trunk, leg, and arms.  ▪Group discussion: Making group to discuss the functions of voluntary muscles Making group discussion in order to discover good practices of maintaining muscles and avoiding their accidents.  ▪Practicing the physical exercises as part of hygiene of muscles.  ▪Role─play: Simulate a first aid intervention in case of muscle accident ( stretching and massage ) such as a cramped muscle. |  |
| **Week11**  **26-30/06/2023** | **GENERAL REVISION** | | | | |
| **Week12**  **03-07/07/2023** | **EXAMINATIONS PERIOD AND SUPERVISION OF EXAMINATIONS** | | | | |
| **Week13**  **10-14/07/2023** | **MARKING,MAKING SCHOOL REPORTS PERIOD AND CLOSING THE YEAR (THIRD TERM)** | | | | |
| **Week 14**  **17-19/07** | **PNLE** | | | | |