**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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 exerciseson 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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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 Primary4REB &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** |