**REPUBLIC OF RWANDA**

**KIGALI CITY**

**GASABO DISTRICT**

**SCHEME OF WORK**

**SUBJECT: SET ACADEMIC YEAR:2022/2023**

**CLASS: P6**

**SCHOOL:………………………………………………….. TEACHER’S NAME:………………………………………………………….**

**TERM I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WEEKS&DATES** | **UNIT TITLE** | **CONTENT/LESSONS/EVALUATION** | **RESSOURCES &REFERENCES** | **LEARNING ACTIVITIES** | **OBSERVATION** |
| **Week 1****26-30/09/2022** | **Unit 1:Mechanics and blacksmith tools(6periods)** | ▪Examination correction▪The common Mechanics tools | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Observation:in class,to display a and match them with range of blacksmith tools and learners try to name them their use |  |
| **Week2****03-07/10/2022** |  | ▪The common Blacksmith tools▪Use and maintenance of mechanics and blacksmiths tools▪Unit Review Exercises |  | ▪Practical work about the use and care for mechanics and blacksmith tools.▪Group discussion and presentation on the use and maintenance of mechanics,blacksmith tools and giving reasons. |  |
| **Week3****10-14/10/2022** | **Unit 2:Simple machines(12periods)** | ▪Definition of simple machines▪Types of simple machines▪Safety in the use of simple machines | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Differentiate a simple machine from other materials/tools▪Discover the types and characteristics of simple machines. |  |
| **Week4****17-21/10/2022** |  | ▪levers▪Unit Review Exercises |  | ▪Group work to use simple machines according to classes to discover the position of fulcrum,load and effort.▪Classify different tools in classes of levels. |  |
| **Week5****24-28/10/2022** | **Unit 3****Objects production(8periods)** | ▪Making toys▪Making utility objects in threads▪Making learning materials in paper and manilla paper▪Maintenance of utility and learning objects▪Unit Review Exercises | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Collecting clay and wires to make toys objects.▪Collecting threads,needle or lancelet and scissors to make utility objects.▪Collecting papers,manila paper and scissors to make learning objects individually. |  |
| **Week6****31/10-04/11/2022** | **Unit 4****Writing skills(17periods)** | ▪WORD PROCESSING▪Identification of elements of Gnome environment▪Working with a document▪Folder management | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Class exercises to create and rename a folder on the desktop.▪Practice selecting a program,setting date and time,connecting to the network and switching back to sugar interface.▪Exerciseson how to copy a file into a folder,delete,move,copy and paste afile/folder.▪Practice the use of bold,Italic,Underline and apply colours to text |  |
| **Week7****07-11/11/2022** |  | ▪Elements of Abiword Window▪Text formatting▪Definition and role of spreadsheets▪Spreadsheet environment |  | ▪Practicing saving and opening a file in/from different locations▪Exercise to explore basic features of a spreadsheet environment. |  |
| **Week8****14-18/11/2022** |  | ▪Worksheet basics▪Modifying columns,rows and cell▪Formatting cells and worksheets▪Mathematical operators▪Unit Review exercises |  | ▪Individual exercises to insert data into cells and apply indicated manipulation.▪Practice and apply arithmetical operations on numerical data… |  |
| **Week9****21-25/11/2022** | **Unit5****Computer research(10periods)** | ▪Introduction to search engine▪Search engine techniques | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Practice on different search Engines to find data and information using keyword and phrase searching techniques. |  |
| **Week10****28/11-02/12/2022** |  | ▪Types of search engines▪Example and search engines▪Unit Review Exercises |  | ▪Exercises on classifying types of search Engines.▪Practice copying and editing the results form searched information |  |
| **Week11****05-09/12/2022** | **GENERAL REVISION** |
| **Week12****12-16/12/2022** | **EXAMINATION PERIOD AND SUPERVISION OF EXAMINATION** |
| **Week13****19-23/12/2022** | **MARKING , MAKING SCHOOL REPORTS AND CLOSING THE FIRST TERM** |

**TERM II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week 1****09-13/01/2023** | **Unit6****Programming for children(25periods)** | ▪Turtle art for displaying things▪Draw irregular polygons▪Programming animations and computing in scratch▪Working with the stage | Science and Elementary Technology pupil’s book primary 6Spotlight &Laxmi publications | ▪Organise instructions to display different images,numbers videos or texts.▪practice drawing shapes and calculating their area.▪Individual exercises to organize multiple backgrounds.▪Practice to create funny games and animations |  |
| **Week 2****16-20/01/2023** | **Programming for children** | ▪Create stories to animation▪Scratch with mathematics▪Identification of elements of Etoys environment▪Etoys book▪Etoys projects and animation▪Unit Review Exercises | Science and Elementary Technology pupil’s book primary 6Spotlight &Laxmi publication | ▪Practice carrying out different mathematical operations.▪individual practice on writing Etoys books or a diary.▪Group discussion on the use of Etoys in daily life… |  |
| **Week 3****23-27/01/2023** | **Unit7:****Air pollution(12periods)** | ▪Definition of air pollution▪Common air pollutants▪sources of common air pollutants▪Consequences of polluted air▪Protection of air against air pollutants▪Unit Review Exercises | Science and Elementary Technology pupil’s book primary 6Spotlight &Laxmi publications | ▪Field visit and group discussion aiming to discover air pollutants and their sources.▪Group discussions on the consequences of polluted air and on the way to protect against it.▪Make an experiment to pollute air contained in a plastic bag using dust or fumes observe and discuss how to avoid air pollution. |  |
| **Week 4****30/01-03/02/2023** | **Unit8:****Animals(12periods)** | ▪Characteristics of a good cowshed/goat shelter ▪Types of cows/goat breeds▪Characteristics of cattle/goat breed to rear▪Proper feeding of cattle▪Cattle health sanitation conditions | Science and Elementary Technology pupil’s book primary 6Spotlight &Laxmi publications | ▪Field visits of different cattle/goat farms▪Group discussion about the types of cattle/goat breeds.▪Discussion on good feeding and hygiene for cattle/goat.▪Group discussion about how to keep a flock healthy. |  |
| **Week 5****06-10/02/2023** |  | ▪Common diseases of cattle/goat▪Prevention of cow/goat diseases▪Importance of cattle/goat farming▪Unit Review Exercises |  | ▪Group discussion about cattle/goat diseases and their prevention.▪Group discussion about the socio-economic importance of cow/goat breeding. |  |
| **Week 6****13-17/03/2023** | **Unit9:****Plant reproduction(10periods)** | ▪Identification parts of a complete flower▪Definition of plant reproduction▪Sexual and asexual reproduction of plants▪Reasons for plants reproduction▪Unit Review Exercises | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Collecting different samples of flowers in the school surroundings,dissect a complete flower and observe its parts.▪Group discussion:In small groups discuss the various ways in which plants reproduce(sexual and asexual)and communicate finding.▪Practical:perform the multiplication of some plants using asexual reproduction techniques: |  |
| **Week 7****20-24/02/2023** | **Unit 10:****Sustainable waste management(10periods)** | ▪Classification of waste ▪Sources of waste▪Waste management techniques▪Unit Review Exercises | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Visit school surroundings to discover Hazardous,Organic and Recyclable materials.▪Group work and presentation on how different types of waste can be transformed and utilized.▪Group work and presentation on several sources of waste.▪Collecting garbage around the school,discuss and apply the proper garbage collection techniques.▪Group work and presentation on different waste management techniques.▪Discuss and apply some of waste management techniques. |  |
| **Week 8****27/02-03/03/2023** | **Unit 11:****Circulatory system(8periods)** | ▪Main function of circulatory system▪Organs of circulatory system▪Structure of the heart▪The process of blood circulation▪Component of blood▪Caring for our bodies and health▪Diseases/conditions of circulatory system▪Blood pressure measurement▪Unit Review Exercises | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Group discussion about the main function of circulatory system.▪Observation of wall charts or other learning support,the circulatory system.▪Group discussion:The function of the heart.▪Draw and discuss the functioning of the circulatory system.▪Group discussion on hygiene of the heart.▪Role play:First aid in case of external hemorrhage. |  |
| **Week 9****06-10/03/2023** | **Unit 12:****Respiration system(8periods** | ▪Main function of respiration system▪Identification of organs of the respiration system▪Mechanism of respiration▪Good health practices and behaviors▪Diseases of respiratory system▪Suffocation▪Unit Review Exercises | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Group discussion about the main function of respiratory system.▪Observation of wall charts or other learning support the respiration system and draw it in the exercise book.▪Group discussion:The mechanism of breathing▪Role play:Perform an experiment to show the movement of the thorax and diaphragm during inspiration and expiration.▪Group discussion on various about suffocation.▪Do experiment to show the effect of smoking. |  |
| **Week10****13-17/03/2023** | **GENERAL REVISION** |
| **Week 11****20-24/03/2023** | **EXAMINATION PERIOD AND SUPERVISION OF EXAMINATION** |
| **Week12****27-31/03/2023** | **MARKING,MAKING SCHOOL REPORTS AND CLOSING THE SECOND TERM** |

**TERM III**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week 1****17-21/04/2023** | **Unit 13:****Reproductive system(14periods)** | ▪Main function of reproductive system▪Male reproductive organs▪Female reproductive organs | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Group discussion about the main function of reproductive system.▪Drawing and labelling the male and female reproductive system.▪Discuss on function of major parts of the reproductive system. |  |
| **Week 2****24-28/04/2023** |  | ▪Preventing unplanned pregnancy▪Sexually transmitted infection |  | ▪Group discussion on ways of avoiding unwanted pregnancy. |  |
| **Week 3****01-05/05/2023** |  | ▪Means of transmission of common STIs/HIV▪Identification of various ways for STIs/HIV transmission |  | .▪Discussion on how STIs and HIV/AIDS are transmitted and can be prevented.▪Demonstrate the correct use of condom.▪Role plays about sexual behavior and decision making topractice communication,negotiation and refusal skill.▪Group discussion about living positively with HIV and AIDS. |  |
| **Week 4****08-12/05/2023** | **Unit 14:Energy****Management****(12 periods)** | .Definition of energy.Forms of energy(and examples).EnergyTransformation/energyConversation.Importance of energy.Source of energy | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Group discussion about the definition and forms of energy.▪Working small groups to discuss the types of energy transformation.▪Field trip:▪In groups,discuss the economic impact of the use of energy.▪Research from library books and search engines on the different sources of energy. |  |
| **Week 5****15-19/05/2023** |  | ▪Renewable energy▪Some renewable energy▪Advantage of using renewable energy▪Unit Review Exercises |  | ▪Group discussions aiming to discover the existence of renewable energies.▪Visiting to observe and discuss on a biogas installation.▪Visiting to observe and discuss on a solar power installation▪Group discussion aiming to discover advantages of using renewable energy |  |
| **Week 6****22-26/05/2023** | **Unit 15:Magnetism(8periods)** | ▪Types of magnets▪Composition of magnets:iron or steels▪Characteristics of magnets▪Magnetic forces and materials | Science and Elementary Technology pupil’s book primary 6Spotlight&Laxmi publications | ▪Research from library books and search engines to discover types of magnets , the composition of magnets and their characteristics▪Experiment aiming to the classification of different objects in no magnets and magnetics materials;▪Make a temporary magnetGathering supplies; a paperclip or small nail and a permanent magnet:Rubbing the magnet against the paperclip/nail :Moving it in the same direction,rather than back and forth. Using the same quick motion you would use to light a match and continue rubbing the paperclip with the magnet about 50 times as quickly as you can; Touching the paperclip / nail against another smaller piece of metal ( like a needle ) and observe |  |
| **Week 7****29/05-02/06/2023** | ▪Definition of magnetic field▪Magnetic compass and its uses▪Uses of magnets▪Unit Review Exercises |  | ▪ Investigate the magnetic field using a permanent magnet, a white sheet of paper and iron filings.▪ Investigating the use of magnetic compass.▪Make a compass needle using a magnetized sewing needle or safety pin, a bowl or jar, some water, and a coin-sized cross section of cork, magnetize the needle, insert the needle in the cork, float the compass and observe.▪Finding a lost needle/ nail into the soil /grass. |  |
| **Week 8****05-09/06/2023** | **Unit 16:****States of matter(10periods)** | ▪Definition of matter▪Identification of differences between the three states of matter▪Identification of changes between the three states of matter in water | Science and Elementary Technology pupil’s book primary 6Spotlight &Laxmi publications | ▪Experiment: Measure mass and volume of different materials using appropriate apparatus.▪Investigate the relationship between the augmentation and diminution of water temperature and the state of water .▪Investigation and group discussion on classification of materials according to their shape and their volume |  |
| **Week 9****12-16/06/2023** |  | ▪ Melting , freezing and boiling points of water▪Changes in states of water in the water cycle▪Transformation of states of matter▪Unit Review Exercises |  | ▪Investigate the physical change of heated ice and cooled water vapour and measure the melting point of water.▪Group discussions aiming to compare state of water in the water cycle.▪Investigation of change between the three state of matter in Naphthalene / iodine due to the increase of temperature. |  |
| **Week10****19-23/06/2023** | **GENERAL REVISION &C0MPETITION** |
| **Week 11****26-30/06/2023** | **GENERAL REVISION** |
| **Week12****03-07/07/2023** | **EXAMINATION PERIOD AND SUPERVISION OF EXAMINATION** |
| **Week13****10-14/07/2023** | **MARKING , MAKING SCHOOL REPORTS AND CLOSING YEAR(THIRD TERM)** |
| **Week14****17-19/07/2023** | **PNLE** |

**18July ─ 20 July:PRIMARY NATIONAL EXAMINATION**