**REPUBLIC OF RWANDA**

**KIGALI CITY**

**GASABO DISTRICT**

**SCHEME OF WORK**

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

**CLASS: P6**

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

**TERM I**

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| **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 6  Spotlight&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 6  Spotlight&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 6  Spotlight&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 6  Spotlight&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 6  Spotlight&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**

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| **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 6  Spotlight &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 6  Spotlight &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 6  Spotlight &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 6  Spotlight &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 6  Spotlight&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 6  Spotlight&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 6  Spotlight&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 6  Spotlight&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**

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| **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 6  Spotlight&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)  .Energy  Transformation/energy  Conversation  .Importance of energy  .Source of energy | Science and Elementary Technology pupil’s book primary 6  Spotlight&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 6  Spotlight&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 magnet  Gathering 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 6  Spotlight &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** | | | | |

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