**SCIENCE SCHEMES OF WORK**

**STANDARD 5, 2019**

**SCIENCE SCHEME OF WORK CLASS 5**

**For Use with Primary Science Pupils Book for Standard Five**

**TERM 1**

|  |  |  |  |  |  |  |  |  |
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| **WK** | **LESN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **T/L**  **RESOURCES** | **REFF** | **REM** |
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|  | | | | | | | | |
| 1 | Opening Term 1 and Revisions | | | | | | |  |
| 2 | 1 | **HUMAN BODY** | **The Human Breathing system** | By the end of this topic, The learner should be able to:  i) Define Breathing System  ii)Distinguish between inspiration and expiration | * Breathing in and out * Observation-Volume of the chest, What makes chest change its size | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials. | Primary Science Pupils Book for Standard 5 |  |
|  | 2 |  | Parts of the Human Breathing system and their Functions  Nose | By the end of this topic, The learner should be able to:  i)state the functions of the parts of the breathing system**(Nose)** | * Breathing in and out * Observation-Volume of the chest, What makes chest change its size | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials. | Primary Science Pupils Book for Standard 5 |  |
|  | 3 |  | Trachea (Wind Pipe) | By the end of this topic, The learner should be able to:  i) Identify the Trachea  ii) State the Functions of the Trachea | * Breathing in and out * Observation-Volume of the chest, What makes chest change its size | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials. | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Bronchus(Plural-Bronchi**) | By the end of this topic, The learner should be able to:  i) State the functions of the Bronchus  Primary Science Pupils Book for Standard 5,pg. 2 | * Breathing in and out * Observation-Volume of the chest, What makes chest change its size | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials. | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Lungs** | By the end of this topic, The learner should be able to:  i) Identify the Lungs  ii) State the functions of the Lungs | * Breathing in and out * Observation-Volume of the chest, What makes chest change its size * Observing the breathing organs | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials. | Primary Science Pupils Book for Standard 5, |  |
| 3 | 1 |  | **Exercise** | By the end of this topic, The learner should be able to:  Complete the exercise | * Draw a diagram of the parts of the human breathing system | Primary Science Pupils Book for Standard Five, | Primary Science Pupils Book for Standard 5, |  |
|  | 2 |  | **Digestive system**: | By the end of this topic, The learner should be able to:  i) identify the main parts of  the digestive system  ii) Name the parts of the digestive system | * Discussions * Observations | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials. | Primary Science Pupils Book for Standard 5,pg. 4 |  |
|  | 3 |  | **Digestion in the Mouth-**  **Function of Teeth, saliva, Tongue and Oesophagus (Gulle**t) | By the end of this topic, The learner should be able to:  i) identify the main parts of the digestive system  ii) Sate the functions of Teeth, Saliva, Tongue and Oesophagus | * Discussions * Observations | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials | Primary Science Pupils Book for Standard 5, |  |
|  | 4 |  | **Function o Tongue and Oesophagus (Gullet)** | By the end of this topic, The learner should be able to:  i) identify the main parts of the digestive system  ii) Sate the functions of Teeth, Saliva | * Discussions * Observations | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials | Primary Science Pupils Book for Standard 5, |  |
|  | 5 |  | Exercise  Drawing diagram | By the end of this topic, The learner should be able to:  i)Draw and name the diagram  ii) Mouth-Function of Tongue and Oesophagus (Gullet) | * Discussions * Drawing a diagram of the digestive system of a human body * Observe the diagram and identify the parts | Primary Science Pupils Book for Standard Five, Charts and diagrams of the breathing system, audio visual materials | Primary Science Pupils Book for Standard 5, |  |
| 4 | 1 |  | Digestion in the Stomach  Small intestine (Ileum) | By the end of this topic, The learner should be able to:  i) state the functions of  various system  ii) Explain the digestion in the stomach | * Observe the diagram and identify the parts * Discuss the digestive system in the small intestine | Primary Science Pupils Book for Standard Five, Charts and diagrams of the digestive system, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Digestion in the liver** | By the end of this topic, The learner should be able to:  i) Understand the function of liver in digestion | * Observe the diagram and identify the parts * Discuss the digestive system in the large intestine * Observe the diagrams | Primary Science Pupils Book for Standard Five, Charts and diagrams of the digestive system, audio visual materials | Primary Science Pupils Book for 5 |  |
|  | 3 |  | **Digestion in the pancreas** | By the end of this topic, The learner should be able to:  Understand the function of the pancreas in digestion | * Observe the diagram and identify the parts * Discuss the digestive system in the large intestine * Observe the diagrams | Primary Science Pupils Book for Standard Five, | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Digestion in the large intestine** | By the end of this topic, The learner should be able to:  Understand Digestion in the large intestine | * Observe the diagram and identify the parts * Discuss the digestive system in the large intestine * Observe the diagrams | Primary Science Pupils Book for Standard Five, | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Digestion in the rectum** | By the end of this topic, The learner should be able to:  Understand the function of the rectum in digestion | * Observe the diagram and identify the parts * Discuss the digestive system in the large intestine * Observe the diagrams | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
| 5 | 1 |  | **Anus** | By the end of this topic, The learner should be able to:  Understand the function of the Anus in digestion | * Observe the diagram and identify the parts * Discuss the digestive system in the large intestine * Observe the diagrams | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 2 | **Exercise** | **Exercise** | By the end of this topic, The learner should be able to:  Complete an evaluation exercise | * Observe the diagram and identify the parts * Discuss the digestive system in the large intestine * Observe the diagrams | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Functions of the teeth** | By the end of this topic, The learner should be able to:  i)Understand the Functions of the teeth  ii)Name and classify teeth | * Observe the diagram and identify the teeth * Discuss the Functions of the teeth * Observe the diagrams | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Functions of the Oesophagus** | By the end of this topic, The learner should be able to:  i)Understand the Functions of the Oesophagus | * Observe the diagram and examine the oesophagus * Discuss the Functions of the Oesophagus * Observe the diagrams | Primary Science Pupils Boo 5, Charts and diagrams, audio visual materials., | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Functions of the stomach** | By the end of this topic, The learner should be able to:  Understand the Functions of the stomach | * Observe the diagram and examine the Stomach * Discuss the Functions of the stomach * Observe the diagrams | Primary Science Pupils Boo 5, Charts and diagrams, audio visual materials.,, | Primary Science Pupils Book for Standard 5 |  |
| 6 | **Revision exercises and class work** | | | | | | |  |
| 7 | **Mind Term 1 Exams and closing** | | | | | | |  |
| 8 | 1 |  | **Functions of the Small intestines**  **Hint: Functions** of liver and  Pancreas not required.  Details of names,  functions and process of  enzymes also not  Required. | By the end of this topic, The learner should be able to:  Understand the i)Functions of the Small intestine  ii)Functions of the large intestine | * Observe the diagram and examine the Small intestines * Discuss the Functions of the small intestines * Observe the diagrams | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials., | Primary Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Functions of the large intestines**. | By the end of this topic, The learner should be able to:  Understand the  i)Functions of the large intestine | * Observe the diagram and examine the Small and the large intestines * Discuss the Functions of the large intestines * Observe the diagrams | Primary Science Pupils Boo 5, Charts and diagrams, audio visual materials. | Primary Science Pupils Book for Standard 5 |  |
|  | 3 | **HEALTH**  **EDUCATION** | **Proper use and**  **storage of medicine** | By the end of this topic, The learner should be able to:  Describe the proper use and  storage of medicine | * Observe the diagram and examine Medicines * Discuss handling of medicine * Observe the diagrams | Primary Science Pupils Boo 5, Charts and diagrams, audio visual materials. | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Safety when handling**  **chemicals** | By the end of this topic, The learner should be able to:  **Describe Safety when handling**  **chemicals** | * Observe the diagram and examine Medicines * Discuss handling of chemicals * Observe the diagrams | Primary Science Pupils Boo 5, Charts and diagrams, audio visual materials., | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Modes of transmission**  **of HIV** | By the end of this topic, The learner should be able to:  **Explain Modes of transmission**  **of HIV** | * Observe the diagram and examine Medicines * Discuss handling of chemicals * Discuss the mode of transmission of HIV | Primary Science Pupils Boo 5, Charts and diagrams, audio visual materials., | Primary Science Pupils Book for Standard 5 |  |
| 9 | 1 |  | **Stages of HIV**  **infection** | By the end of this topic, The learner should be able to:  i)Explain **Stages of HIV**  **infection**  **ii) N**ame the stages of  development of HIV | * Observe diagrams of people suffering HIV at different stages * Discuss handling HIV infected person * Name the stages of   development of HIV | Primary Science Pupils Boo 5, Charts and diagrams, audio visual materials., | Primary Science Pupils Book for Standard 5 |  |
|  | 2 | **PLANTS** | **Classification of plants into:**  **Green plants** | By the end of this topic, The learner should be able to:  Classify plants into green  and non-green | * Observe the diagram and examine Plants * Discuss classification of plants * Observe the diagrams | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials. | Primary Science Pupils Book for Standard 5 |  |
|  | 3 | **PLANTS** | **Classification of plants into:**  **Non-green plants** | By the end of this topic, The learner should be able to:  Classify plants into green  and non-green | * Observe the diagram and examine Plants * Discuss classification of plants * Observe the diagrams | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials., | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Flowering**  **plants** | By the end of this topic, The learner should be able to:  Classify plants into  flowering and no flowering | * Observe the diagram and examine different plants * Discuss flowering and non flowering plants | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Non flowering**  **plants** | By the end of this topic, The learner should be able to:  Classify plants into  flowering and no flowering | * Observe the diagram and examine different plants * Discuss flowering and non flowering plants | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
| 10 | 1 |  | **Functions of external parts of a**  **plant (root, stem, leaf, flower,**  **fruit)** | By the end of this topic, The learner should be able to:  State the functions of the  external parts of a plant | * Observe the diagram and examine different plants * Discuss the external parts of a plant | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Types of roots (tap roots)** | By the end of this topic, The learner should be able to:  Identify different types of  roots | * Observe the diagram and examine types of roots * Discuss roots of different plants | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Types of roots**  **(fibrous roots)** | By the end of this topic, The learner should be able to:  Identify different types of  roots | * Observe the diagram and examine types of roots * Discuss roots of different plants | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 4 | **WEATHER** | **Weather instruments**  **Rain gauge** | By the end of this topic, The learner should be able to:  i)Identify different weather  instruments  ii) State the use of different  weather instrument  iii) Construct and use different  weather instruments | * Observe the diagrams of weather instruments * Discuss the use of different   weather instrument   * Construct and use different   weather instruments | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Wind vane** | By the end of this topic, The learner should be able to:  i)Identify different weather  instruments  ii) State the use of different  weather instrument  iii) Construct and use different  weather instruments | * Observe the diagrams of weather instruments * Discuss the use of different   weather instrument   * Construct and use different   weather instruments | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
| 11 | 1 |  | **Windsock** | By the end of this topic, The learner should be able to:  i)Identify different weather  instruments  ii) State the use of different  weather instrument  iii) Construct and use different  weather instruments | * Observe the diagrams of weather instruments * Discuss the use of different   weather instrument   * Construct and use different   weather instruments | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Liquid and air** Thermometers | By the end of this topic, The learner should be able to:  i)Identify different weather  instruments  ii) State the use of different  weather instrument  iii) Construct and use different  weather instruments | * Observe the diagrams of weather instruments * Discuss the use of different   weather instrument   * Construct and use different   weather instruments | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Making the different weather**  **instruments** | By the end of this topic, The learner should be able to:  i)Identify different weather  instruments  ii) State the use of different  weather instrument  iii) Construct and use different  weather instruments | * Observe the diagrams of weather instruments * Discuss the use of different   weather instrument   * Construct and use different   weather instruments | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Using weather instruments** | By the end of this topic, The learner should be able to:  i)Identify different weather  instruments  ii) State the use of different  weather instrument  iii) Construct and use different  weather instruments | * Observe the diagrams of weather instruments * Discuss different   weather instrument   * Construct and use different   weather instruments | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 5 | **ANIMALS** | **Classifying animals**  **Meaning of:**  **Vertebrates and**  **Invertebrates** | By the end of this topic, The learner should be able to:  i)Explain the meaning of  Vertebrates and invertebrates  ii)classify vertebrates and  give examples of each  group  iii) observe and list some  characteristics of the groups  of vertebrates  iv) name some common  invertebrates | * Observe the diagrams of different animals * Discuss the use of vertebrates and invertebrates | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
| 12 | 1 |  | **Classification of vertebrates**  **Amphibians** | By the end of this topic, The learner should be able to:  i)Explain the meaning of  Vertebrates and invertebrates  ii)classify vertebrates and  give examples of each  group  iii) observe and list some  characteristics of the groups  of vertebrates  iv) name some common  invertebrates | * Observe the diagrams of different animals * Discuss the vertebrates and invertebrates | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Fish** | By the end of this topic, The learner should be able to:  i)Explain the meaning of  Vertebrates and invertebrates  ii)classify vertebrates and  give examples of each  group  iii) observe and list some  characteristics of the groups  of vertebrates  iv) name some common  invertebrates | * Observe the diagrams of different animals * Discuss the vertebrates and invertebrates | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Reptiles** | By the end of this topic, The learner should be able to:  i)Explain the meaning of  Vertebrates and invertebrates  ii)classify vertebrates and  give examples of each  group  iii) observe and list some  characteristics of the groups  of vertebrates  iv) name some common  invertebrates | * Observe the diagrams of different animals * Discuss the vertebrates and invertebrates | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Birds** | By the end of this topic, The learner should be able to:  i)Explain the meaning of  Vertebrates and invertebrates  ii)classify vertebrates and  give examples of each  group  iii) observe and list some  characteristics of the groups  of vertebrates  iv) name some common  invertebrates | * Observe the diagrams of different animals * Discuss the vertebrates and invertebrates | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Mammals** | By the end of this topic, The learner should be able to:  i)Explain the meaning of  Vertebrates and invertebrates  ii)classify vertebrates and  give examples of each  group  iii) observe and list some  characteristics of the groups  of vertebrates | * Observe the diagrams of different animals * Discuss the vertebrates and invertebrates | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
| 13 | Revisions and Preparations for End Term 1 Exam | | | | | | |  |
| 14 | End Term 1 Exam and Closing | | | | | | |  |
|  | **TERM 11** | | | | | | |  |
| 1 | **Opening and Revision** | | | | | | |  |
| 2 | 1 |  | **Common invertebrates**  a) Iinvertebrates such as  insects, ticks, spiders,  mites, spiders, mites,  B) Worms, snails, slugs,  millipedes, centipedes and  crabs | By the end of this topic, The learner should be able to:  i) observe and list some  characteristics of the groups  of vertebrates  ii) name some common  invertebrates | * Observe the diagrams of different animals * Discuss the vertebrates and invertebrates | Primary Science Pupils Book 5, Charts and diagrams, audio visual materials | Primary Science Pupils Book for Standard 5 |  |
|  | 2 | **SOIL** | **Soil texture**  **a) fine /smooth such as clay** | By the end of this topic, The learner should be able to:  Explain the term soil texture | * Observe the diagrams different types of soil * Discuss the properties of soil | Primary Science Pupils Book 5, Charts and diagrams, audio, sample types of soil | Primary Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Soil texture**  **coarse/rough such as sand** | By the end of this topic, The learner should be able to:  Explain the term soil texture | * Observe the diagrams different types of soil * Discuss the properties of soil | Primary Science Pupils Book 5, Charts and diagrams, audio, sample types of soil | Primary Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Physical properties of soil**  **a) Drainage /water retention** | By the end of this topic, The learner should be able to:  Investigate the physical  properties of soil | * Observe the diagrams different types of soil * Discuss the physical properties of soil | Primary Science Pupils Book 5, Charts and diagrams, audio, sample types of soil | Primary Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Physical properties of soil**  **b)Capillarity (rising up of**  **water in soil)** | By the end of this topic, The learner should be able to:  Investigate the physical  properties of soil | * Observe the diagrams different types of soil * Discuss the physical properties of soil | Primary Science Pupils Book 5, Charts and diagrams, audio, sample types of soil | Primary Science Pupils Book for Standard 5 |  |
| 3 | 1 | **FOODS AND**  **NUTRITION** | **Nutrients found in food**  **Carbohydrates** | By the end of this topic, The learner should be able to:  i) State nutrients found in food  iii) State the importance of  water | * Observe the diagrams different types foods * Discuss the nutrients found in food | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources. | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Fats and oils** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii) state the importance of  water  iii)identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources. | Primary  Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Proteins** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii) state the importance of  water  iii)identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources. | Primary  Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Vitamins** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii) state the importance of  water  iii)identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Minerals** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii) State the importance of  water  iii)Identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
| 4 | 1 |  | **Importance of water and fiber**  **in a diet** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii) State the importance of  water  iii)Identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food * Discuss the importance of water. | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Nutritional deficiency disease**  **Kwashiorkor** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii)Identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food * Discuss causes of kwashiorkor | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Marasmus** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii)Identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food * Discuss causes of Marasmus | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Anemia** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii)Identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food * Discuss causes of Anemia | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Rickets** | By the end of this topic, The learner should be able to:  i ) State nutrients found in food  ii)Identify some nutritional  deficiency diseases, their  causes, signs, symptoms  and their prevention | * Observe the diagrams different types foods * Discuss the nutrients found in food * Discuss causes of Anemia | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
| 5 | 1 | **ENERGY** | **Sound**  **Types of sound**  **loud and soft** | By the end of this topic, The learner should be able to:  Identify different types of  sound | * Observe the diagrams different types foods * Discuss the nutrients found in food   Discuss causes of Anemia | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Pollution from sound (noise)**  **Effects such as damaging**  **the ear drum and irritation** | By the end of this topic, The learner should be able to:  ii) Demonstrate pollution from  sound  ii) Explain effects of sound | * Observe the diagrams * Discuss the effects of sound * Discuss sound pollution | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 3 |  | Heat transfer  Condensation | By the end of this topic, The learner should be able to:  Investigate methods of heat  transfer | * Observe the diagrams * Discuss the effects of sound * Discuss methods of heat transfer | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Convection** | By the end of this topic, The learner should be able to:  Investigate methods of heat  transfer | * Observe the diagrams * Discuss the effects of sound * Discuss methods of heat transfer | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Radiation** | By the end of this topic, The learner should be able to:  Investigate methods of heat  transfer | * Observe the diagrams * Discuss the effects of sound * Discuss methods of heat transfer | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
| 6 | Revision Exercises and class work | | | | | | |  |
| 7 |  | Mid Term 11 Exams and Closing | | | | | |  |
| **8** | 1 | EXERCISE | **Exercise** | By the end of this topic, The learner should be able to:  Complete the Exercise | Exercise | Primary Science Pupils Book 5 | Primary Science Pupils Book 5 |  |
|  | 2 |  | **Good conductors of**  **heat** | By the end of this topic, The learner should be able to:  Classify good and poor  conductors of heat and their  uses | * Observe the diagrams * Discuss the effects of sound * Experiment on good and poor conductors of heat | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 3 |  | **Poor conductors of**  **heat** | By the end of this topic, The learner should be able to:  Classify good and poor  conductors of heat and their  uses | * Observe the diagrams * Discuss the effects of sound * Experiment on good and poor conductors of heat | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Uses of good**  **conductors of heat** | By the end of this topic, The learner should be able to:  Classify good and poor  conductors of heat and their  uses | * Observe the diagrams * Discuss the effects of sound * Experiment on good and poor conductors of heat | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Uses of Poor**  **conductors of heat** | By the end of this topic, The learner should be able to:  Classify good and poor  conductors of heat and their  uses | * Observe the diagrams * Discuss the effects of sound * Experiment on good and poor conductors of heat | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
| 9 | 1 | **PROPERTIES OF**  **MATTER** | **State of matter**  Solid | By the end of this topic, The learner should be able to:  i) List the state of matter  ii) identify characteristics of  matter | * Observe the diagrams * Discuss matter * Investigate matter | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 |  | **liquid** | By the end of this topic, The learner should be able to:  i) List the state of matter  ii) identify characteristics of  matter | * Observe the diagrams * Discuss matter * Investigate matter effects of sound | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 3 | **PROPERTIES OF**  **MATTER** | **State of matter**  Solid | By the end of this topic, The learner should be able to:  i) List the state of matter  ii) identify characteristics of  matter | * Observe the diagrams * Discuss matter * Investigate matter | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 4 |  | **liquid** | By the end of this topic, The learner should be able to:  i) List the state of matter  ii) identify characteristics of  matter | * Observe the diagrams * Discuss matter * Investigate matter effects of sound | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Volume** | By the end of this topic, The learner should be able to:  i) List the state of matter  ii) identify characteristics of  matter | * Observe the diagrams * Discuss matter * Investigate matter | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
| 10 | 1 |  | **Mass** | By the end of this topic, The learner should be able to:  i) List the state of matter  ii) identify characteristics of  matter | * Observe the diagrams * Discuss matter * Investigate matter | Primary Science Pupils Book 5, Charts and diagrams, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 | EXERCISE | **Exercise** | By the end of this topic, The learner should be able to:  Complete the Exercise and class work | * Exercise | Primary Science Pupils Book 5 | Primary Science Pupils Book 5 |  |
|  | 3 |  | Effects of heat on matter  **increasing and decreasing**  **temperature**  **change of state (solid, liquid-**  **gas)** | By the end of this topic, The learner should be able to:  Investigate effects of heat  on matter | * Observe the diagrams * Discuss matter Investigate matter | Primary Science Pupils Book 5, Charts and diagrams, Source of heat and metal, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Melting** | By the end of this topic, The learner should be able to:  Investigate effects of heat  on matter | * Observe the diagrams * Discuss matter Investigate matter * Melting using heat | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 5 |  | **Evaporation** | By the end of this topic, The learner should be able to:  Investigate effects of heat  on matter | * Observe the diagrams * Discuss matter Investigate matter * Heating liquids | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
| 11 | 1 |  | **Conduction** | By the end of this topic, The learner should be able to:  Investigate effects of heat  on matter | * Observe the diagrams * Discuss matter Investigate matter * Heating solids | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 | EXERCISE | **Exercise** | By the end of this topic, The learner should be able to:  Complete the Exercise and class work | * Exercise | Primary Science Pupils Book 5 | Primary Science Pupils Book 5 |  |
|  | 3 |  | **Freezing** | By the end of this topic, The learner should be able to:  Investigate effects of heat  on matter | * Observe the diagrams * Discuss matter Investigate matter * Freezing liquids | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 4 |  | **Expansion of matter** | By the end of this topic, The learner should be able to:  Complete the Investigate effects of heat  on matter | * Observe the diagrams * Discuss matter Investigate matter * Heating various substances to investigate expansion | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 5 |  | Contraction of matter | By the end of this topic, The learner should be able to:  Investigate effects of heat  on matter | * Discuss matter Investigate matter * Discussion on contraction | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
| 12 | 1 |  | **Measurement of temperature in**  **degrees celsius (oC** | By the end of this topic, The learner should be able to:  measure temperature in  degrees celsius (oC) | * Discuss matter Investigate matter * Discussion on contraction * Measuring temperature | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 | EXERCISE | **Exercise** | By the end of this topic, The learner should be able to:  Complete the Exercise and class work | * Exercise | Primary Science Pupils Book 5 | Primary Science Pupils Book 5 |  |
|  | 3-5 | **Class work**  **In door and Out door** | **Class work**  **In door and Out door** | By the end of this topic, The learner should be able to:  Complete the Exercise and class work | * Discuss matter Investigate matter * Discussion on contraction * Measuring temperature | Primary Science Pupils Book 5 | Primary  Science Pupils Book for Standard 5 |  |
| 12-13 | Revision and preparation for end Term Exams | | | | | | |  |
| 14 | End Term 11 Exams and Closing | | | | | | |  |
|  | TERM 111 | | | | | | |  |
| 1 | Opening and Revisions | | | | | | |  |
| 2 | 1 | **MAKING WORK**  **EASIER** | **Balancing on a see-saw** | By the end of this topic, The learner should be able to:  Balance another pupil at  different points on a seesaw | * Make a see-saw and balance * Make a see-saw and balance | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary  Science Pupils Book for Standard 5 |  |
|  | 2 |  | **Making and using a simple**  **beam balance** | By the end of this topic, The learner should be able to:  Make and use a simple  beam balance | * Make a see-saw and balance | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary Science Pupils Book 5 |  |
|  | 3 |  | compare mass  of different materials | By the end of this topic, The learner should be able to:  Make and use a simple  beam balance | * Make a see-saw and balance | Pupils Book 5, Charts and diagrams, Source of heat and solid, liquid, gas, audio, visual resources | Primary Science Pupils Book 5 |  |
|  | 4-5 |  | Exercise | Exercise | By the end of this topic, The learner should be able to:  Complete the Exercise and class work | * Exercise | Primary Science Pupils Book 5 |  |
| 4-7 |  | **Class work, In door and Out door** | **Class work,**  **In door and Out door** | By the end of this topic, The learner should be able to:  Complete the Exercise and class work | * Class work * Revisions | Primary Science Pupils Book 5 | Primary  Science Pupils Book for Standard 5 |  |
| 8 | Preparations for End Term 111 Exams | | | | | | |  |
| 9 | End Term 3 Exams and Closing | | | | | | |  |