**PRIMARY SEVEN SCIENCE SCHEME OF WORK TERM TWO**

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| WK | PD | THEME/  TOPIC | SUBTOPIC/  CONTENT | SUBJECT COMPETENCES | LANGUAGE COMPETENCES | METHODS | ACTIVITY | LIFE SKILLS | VALUES | L/T AIDS. | REF | RM |
| 1 | 1- 3 |  | Orientation.  Going through holiday work. | | | | | | | | | |
|  | 4 | HUMANBODY  Muscular-  Skeletal system | Description of muscular skeletal system.  Types of skeleton  Structure of skeletal system and its parts. | -the learner names different bones and muscles of the human body  -Draws and labels the skeleton and voluntary muscles | -the learner reads words, sentences muscles and joints of the body.  -Write guided notes on the system.  - Names the different bones and muscles of the human skeleton. | Discussion  Demonstration  Observation  Discovery method. | Making observations  Naming different bones  Drawing  Labeling | Critical thinking  Decision making | Logic  Taking decision  Responsibility | Human skeleton | Introduction to Biology pg 119 |  |
|  | 5 |  | Classification of bones.  Classification and types of Joints. | -Identifies different classes of bones in the human body.  -Describes different joints in the body.  -Explain the work of ligaments and tendons. | -Reads words, sentences and stories about muscles and joints of the body.  -Write guided notes on the system. | Discussion  Demonstration  Observation  Discovery method. | Making observation  Naming different bones  Drawing  Labeling. | Problem solving.  Critical thinking  Decision making | Logic  Taking decision  Making right choices.  Confidence | A well drawn chart  Human skeleton | Introduction to Biology pg 120 - 122 |  |
| 2 | 1 |  | Muscles  Types of muscles  Functions of muscular skeletal system.  Diseases and disorders of the system | -Names different muscles of the human body  -Discusses functions of the muscular skeletal system.  -States diseases and disorders of the bones, muscles and the system. | -Recites a poem on diseases and disorders of muscles and bones.  -Write guided notes on the system.  -Draws and labels the structure of the skeletal system and voluntary muscles. | Discussion  Demonstration.  Observation  Discovery method. | Drawing  Labeling  Reading stories.  Describing diseases and disorders | Creative thinking  Decision making  Effective communication | Logic  Taking decision  Making right choices.  Confidence  Responsibility | A well drawn chart | Introduction to Biology pg 123 |  |
|  | 2 |  | Prevention of diseases and disorders of the system.  Health habits that keep the system in a healthy working condition.  Posture.  Importance of correct posture.  Dangers of poor posture. | -States diseases and disorders of the skeletal system.  -Explain ways of caring for the muscular-skeletal system.  -Describes the importance of good posture | -Reads words, sentences and stories about muscles and joints of the body.  -Recites a poem on diseases and disorders of muscles and bones.  -Write guided notes on the system. | Discussion  Demonstration.  Observation  Discovery method. | Making observation  Naming different bones  Drawing  Labeling | Problem solving.  Creative thinking  Decision making  Effective communication | Logic  Taking decision  Making right choices.  Confidence | A well drawn chart | Mk book four. |  |
|  | 3 | MATTER AND ENERGY  Electricity and Magnetism | Electricity  Sources of electricity  Cells  Structure of a dry cell.  Parts of a dry cell.  Calculate for voltage. | -Explains the meaning of electricity.  -Identifies the sources of electricity.  -Discusses the parts of the dry cell  -Calculates for voltage in dry cells. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work.  -Draws the dry cell showing internal parts. | Discussion  Demonstration.  Observation  Discovery method | Naming  Generating static electricity  Making temporary magnets.  Drawing  Reading  Writing | Critical thinking.  Creative thinking.  Decision making | Logic  Taking decision.  Making right choices.  Confidence  Responsibility. | Dry cells  . | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  | 4 |  | Simple cell//wet cells  Chemical battery.  Running water as sources of electricity.  The sun  Fossil fuels.  Nuclear energy  Wind. | -Explains the making of simple cells.  -Explains the sources of electricity from chemical batteries, running water, the sun, fossil fuels, nuclear energy and wind. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work. | Discussion  Demonstration.  Observation  Discovery method | Assembling circuits  Naming  Generating static electricity  Drawing  Reading  Writing | Problem solving  Critical thinking.  Decision making  Effective communication | Logic  Taking decision.  Making right choices.  Confidence  Responsibility. | Lemons  Copper rods  Dilute sulphuric acid | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  |  | 5 | Types of electricity;  The flow of current and electrons.  The D.C and A.C  Forms of electricity.  Conductors of electricity  Insulators of electricity. | -Discusses the two types of electricity  -Experiments with static electricity.  -Explains the flow of current and electrons.  -Identifies different forms of electricity.  -Explains conductors and insulators of electricity | -Writes words, sentences and short stories about electricity and magnetism in the modern world of work.  -Draws the diagram showing flow of current and electrons. | Discussion  Demonstration.  Observation  Discovery method | Generating static electricity  Making temporary magnets.  Drawing  Reading  Writing | Critical thinking.  Creative thinking.  Decision making  Effective communication | Logic  Taking decision.  Making right choices.  Confidence.  Responsibility. | Wires  Insulated wires | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
| 3 | 1 |  | Electric circuit  Components of a circuit  Draw electric circuit.  Uses of parts of the circuit.  The conducting wire  Symbols used in an electric circuit | Draws and labels the electric circuit.  Identifies the use of the components of the circuit.  Explains the components of a conducting wire. | Names different parts of the electric circuit.  -Reads words and sentences on electricity and magnetism.  -Writes words, sentences about electricity in the modern world of work. | Discussion  Demonstration.  Observation  Discovery method | Assembling circuits  Making temporary magnets.  Drawing  Reading  Writing | Problem solving  Critical thinking.  Creative thinking.  Decision making | Logic  Taking decision.  Making right choices.  Confidence  Responsibility. | Fuses  Ammeters  Dry cells | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  |  | 2 | The torch  Use of parts of the torch.  The bulb  Use of parts of a bulb. | Explains the parts and working of the torch.  Explains the parts and working of the bulb.  Identifies the symbols of the parts of the electric circuit. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work. | Discussion  Demonstration.  Observation  Discovery method | Drawing  Reading  Writing | Critical thinking.  Creative thinking.  Decision making | Taking decision.  Making right choices.  Confidence  Responsibility. | Torch  Dry cells  Electric bulbs | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  |  | 3 | Short circuit  Causes of short circuit.  Effects of short circuit.  How to avoid short circuit.  Static electricity  Lightning.  Differences between static and current electricity.  Disadvantage of electricity.  Safety precautions in handling electricity and electrical appliances.  Importance of electricity. | -Identifies the effects of short circuits.  -Identifies ways of avoiding short circuits.  -explains what static electricity is.  -discusses dangers and safety precautions of electricity.  -explains the advantages of electricity.  -discusses the importance of electricity in day today problems. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work. | Discussion  Demonstration.  Observation  Discovery method | Assembling circuits  Naming  Generating static electricity  Making temporary magnets.  Drawing  Reading  Writing | Problem solving  Critical thinking.  Creative thinking.  Decision making  Effective communication | Logic  Taking decision.  Making right choices.  Confidence.  Responsibility. | Electric wires  Plastic pens  Pencils | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  |  | 4 | Magnetism and magnets  Magnetic materials  Types of magnets  Properties of magnets. | -explains what magnetism is.  -Identify magnetic and non magnetic materials.  -Identifies natural and artificial magnets.  - explains the classification of magnets. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work. | Discussion  Demonstration.  Observation  Discovery method | Making temporary magnets.  Drawing  Reading  Writing | Problem solving  Critical thinking | Taking decision.  Making right choices. | Magnets | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  |  | 5 | Magnetic field  Properties of magnetic fields  Preventing magnets from losing magnetism.  Methods of making magnets. | -explains magnetic field  -demonstrates ways of making temporary magnets.  -explains the properties of magnetic fields.  -discusses ways of preventing loss of magnetism.  -explains the methods of making magnets. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work.  -Draws illustrations on making of temporary magnets. | Discussion  Demonstration.  Observation  Discovery method | Assembling circuits  Naming  Generating static electricity  Making temporary magnets.  Drawing  Reading  Writing | Problem solving  Critical thinking.  Creative thinking.  Decision making  Effective communication | Logic  Taking decision.  Making right choices.  Confidence.  Responsibility. | Magnets | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
| 4 | 1 |  | Electromagnet  Determining the poles of electromagnets.  Demagnetizing.  Electric bell. | -discusses the working of the electric bell.  -explains the ways of determining the poles of electromagnets.  -explains ways of demagnetizing a magnet. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work.  -Draws and labels the electric bell. | Discussion  Demonstration.  Observation  Discovery method | Assembling circuits  electricity  Making temporary magnets.  Drawing  Reading  Writing | Problem solving  Critical thinking.  Creative thinking.  Decision making | Logic  Taking decision.  Making right choices.  Confidence  Responsibility. | Solenoid  An electro magnet | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  | 2 |  | Generating electricity using a dynamo and a generator.  Uses of dynamos and generators.  Appliances that use electricity, magnetism and both electricity and magnetism. | -discusses the process involved in generation of electricity using a dynamo.  -discusses the uses of electricity and magnetism in modern world of work.  -Identifies appliances that use electricity alone, magnetism alone and both. | -Reads words and sentences on electricity and magnetism.  -Writes words, sentences and short stories about electricity and magnetism in the modern world of work. | Discussion  Demonstration.  Observation  Discovery method | Naming  Generating static electricity  Making temporary magnets.  Drawing  Reading  Writing | Problem solving  Critical thinking.  Creative thinking.  Decision making  Effective communication | Logic  Taking decision.  Making right choices.  Confidence.  Responsibility. | A bicycle | Nelkon and parker pg 207- 402  Science dictionary pg 58 – 69  Abbott |  |
|  | 3 | THE ENVIRONMENT.  Energy resources | Resources  Energy resource  Energy resources eg sun, water, minerals etc  Importance of the sun as a resource.  Water as an energy resource eg provides HEP, Steam, Tidal energy. | -explains what energy resources are.  -names different energy resources.  -discusses the importance of different energy resources to people and environment.  -Carries out simple experiments using energy from wind or steam.  -describes how to make solar equipment. | -Write guided notes on the Energy resource  -Writes short descriptions on energy resources and sources.  -Reads words and sentences about energy resources and their functions.  -Writes a story about coal and petroleum.  -Draws biogas digester.  -Writes down steps of making biogas digester.  -Writes down steps of making solar equipment. | Discussion  Demonstration.  Observation  Discovery method | Naming energy resources.  -Experimenting on steam and propeller.  Drawing.  Writing. | Critical thinking.  Decision making.  Creative thinking.  Effective communication. | Logic  Confidence.  Taking right decision.  Making right choices.  Appreciation.  Care | A well drawn chart  Energy resources. | MK ,Fountain, ,SC. Bk 7 |  |
|  | 4 |  | Fossil fuels egpetroleum, coaletc  Uranium  Geothermal energy  Animals as energy resources.  Wind as energy resources.  Plants as energy resources. | explains the generation of atomic electricity.  explains the working of geothermal energy.  discusses the importance of animals, wind and plants as energy resources. | -Write guided notes on the Fossil fuels  -Writes short descriptions on energy resources and sources.  -Reads words and sentences about energy resources and their functions.  -Write a story about coal and petroleum. | Discussion  Demonstration.  Observation  Discovery method | Naming energy resources.  -Experimenting on steam and propeller.  Drawing.  Writing. | Critical thinking.  Decision making.  Creative thinking.  Effective communication | Logic  Confidence  Taking right decision.  Making right choices.  Appreciation.  Care | A well drawn chart  Energy resources. | MK ,Fountain, ,SC. Bk 7 |  |
|  | 5 |  | Biogas production  Biomass as amount of living matter in the area.  Steps of making biogas digester.  Structure of biogas digester.  Advantages of using biogas. | -describes how to make biogas digester.  -draws the biogas digester  -explains the working of biogas digester.  -initiates the activities which cause safe and sustainable way of using energy resources.  -explains the advantage of biogas digester. | -Write guided notes on the Biogas production  -Writes short descriptions on energy resources and sources.  -Reads words and sentences about energy resources and their functions.  -Draws biogas digester.  -write steps of making biogas digester. | Discussion  Demonstration.  Observation  Discovery method | Naming energy resources.  -Experimenting on steam and propeller.  Drawing.  Writing. | Critical thinking.  Decision making.  Creative thinking.  Effective communication | Logic  Confidence.  Taking right decision.  Making right choices.  Appreciation.  Care | A well drawn chart  Energy resources. | MK ,Fountain, ,SC. Bk 7 |  |