



SCIENCE SCHEME OF WORK FOR PRIMARY SEVEN TERMS I, II AND III.

| W K | PD | TOPIC | SUB TOPIC | CONTENT | COMPETENCES | METHO DS | L/AIDS | L/T ACTS | SKILLS/ VALUES | REFERENC E (S) | REM |
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| 1 | 1 | THE SKELE TAL AND MUSCU LAR | The Skeleto n | <ul style="list-style-type: none">- Definition of a skeleton.- Functions of a skeleton.- The types of skeleton.- The human skeleton- The four main parts of a human skeleton- NOTE: the human skeleton is made up of 206 bones. | By the end of the lesson, the learner should be able to: <ul style="list-style-type: none">- Define a skeleton- Mention types of a skeleton- List and describe the functions of the skeleton- Draw and name the parts of the human skeleton.- Identify the four major parts of the human skeleton.- List types of bones with examples- Define joints. | Discussion Discovery Demonstration Observation Question and answer Technique | Charts showing the human Skeleton Charts showing the types of bones. | Drawing Answering Both oral and written question | <ul style="list-style-type: none">- Critical thinking-Effective communication- Appreciation Problem solving | Fountain primary Science Bk 4 pg 54 – 58 | |
| | | | | <u>Types of bones</u> <ul style="list-style-type: none">- Long, short, flat, irregular and where they are found. | | | | | | Comprehensive primary Science BK 4 pg 93 – 99 | MK Inter Primary Science Bk 4 pgs 63 – 70 |

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| | | SYSTEM | | <ul style="list-style-type: none"> - Examples of each types <p>Joints</p> <ul style="list-style-type: none"> - Definition of joints - Types of joints <ol style="list-style-type: none"> (i) Description (ii) Examples (iii) Illustration (iv) Functions of the parts (v) Where they are found. | <ul style="list-style-type: none"> - Mention the two types of joints and give examples including where they are found. - Define muscles - Name the types of muscles and their examples - Identify the functions of the muscles in the body. | | | | | | |
| | | | | <p>Muscles</p> <ul style="list-style-type: none"> - Definition of a muscle. (muscles are fibrous tissues that are attached to bones in the body) <p>Types of muscles</p> <ol style="list-style-type: none"> (i) Voluntary and Involuntary (ii) draw voluntary muscles (iii) Examples Of each type of muscles. (iv) Functions of muscles <p>Posture</p> <ul style="list-style-type: none"> - Definition - Importance of a good posture - Dangers of bad posture | <p>By the end of the lessons, the learner should be able to</p> <ul style="list-style-type: none"> - Describe a posture - List the importance of a good posture - Identify the dangers of a bad body posture - List diseases and disorders related to the muscles and skeleton including their cause, prevention, control and treatment. | | Charts showing the types of muscles | <p>Drawing Answering Both oral and written question</p> <p>Drawing Answering Both oral and written question</p> | <ul style="list-style-type: none"> - Critical thinking -Effective communication - Appreciation Problem solving <ul style="list-style-type: none"> - Critical thinking -Effective communication - Appreciation Problem solving | <p>Basic primary Science BK pgs 72 – 75</p> <p>MK Inter Primary Science Bk 4 pgs 63 – 70</p> <p>Fountain primary Science Bk 4 pg 54 – 58</p> | |

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| | | | | <ul style="list-style-type: none">- Diseases and disorders related to the skeletal and muscular system.- How to maintain proper skeletal and muscular system. | | | Good Posture | | | | | |
| 4 | 1, 2 & 3 | FORMS OF ENERGY | Electricity | <ul style="list-style-type: none">▪ Definition of energy▪ Forms of energy.▪ Definition of electricity▪ Uses of electricity▪ Advantages and disadvantages of electricity▪ Dangers of using electricity▪ Electricity appliances | The Learner should be able to:- List down forms of energy. <ul style="list-style-type: none">▪ Define energy.▪ Define electricity.▪ State the uses of electricity.▪ Identify the advantages and disadvantages of using electricity▪ Name the appliances that use electricity | <ul style="list-style-type: none">▪ Guided discussion▪ Question and answer▪ Discovery | <ul style="list-style-type: none">▪ CB illustrations | <ul style="list-style-type: none">▪ Writing notes▪ Listing uses of electricity | <ul style="list-style-type: none">- Critical thinking- Appreciation- Problem solving▪ Effective communication | <ul style="list-style-type: none">▪ MK integrated scie bk7▪ Fountain integrated scie bk7▪ A comprehensive guide for integrated scie bk7 | | |
| | 4 & 5 | | | <ul style="list-style-type: none">▪ Types of electricity.▪ Forms of electricity▪ Static electricity and current electricity▪ Definition of static and current electricity.▪ How to produce static electricity. | The Learner should be able to:- <ul style="list-style-type: none">▪ Name the forms of electricity and how they are produced▪ Give the difference b/n current and static electricity | <ul style="list-style-type: none">▪ Explanation▪ Discussion | <ul style="list-style-type: none">▪ Rulers▪ Paper▪ Textbooks | <ul style="list-style-type: none">▪ Naming forms of electricity | | <ul style="list-style-type: none">▪ MK integrated scie bk7▪ Fountain integrated scie bk7▪ A comprehensive guide for integrated scie bk7 | | |
| | 6 & 7 | FORMS OF | | <ul style="list-style-type: none">▪ Examples of static electricity in nature▪ Lightning and thunder▪ Dangers of lightning▪ How the dangers can be controlled | The Learner should be able to:- <ul style="list-style-type: none">▪ State 2 examples of static electricity▪ Name the dangers of lightning▪ Explain how lightning can be controlled | <ul style="list-style-type: none">▪ Questioning▪ Discussion▪ Answering | <ul style="list-style-type: none">▪ Textbooks▪ BB sketches | <ul style="list-style-type: none">▪ Taking notes▪ Listening | <ul style="list-style-type: none">- Critical thinking- Appreciation- Problem solving▪ Effective communication | <ul style="list-style-type: none">▪ MK integrated scie bk7▪ Fountain integrated scie bk7▪ A comprehensive guide for | | |

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| 5 | 8 | ENERGY | | | | | | | | integrated scie bk7 | |
| | | | | <u>Current electricity</u> <ul style="list-style-type: none"> Definition Types (i.e. DC & AC) Sources of energy for generating electricity (water, sun, fossil fuels), uranium hot springs. | The Learner should be able to:- <ul style="list-style-type: none"> Define current electricity Identify the types of current electricity Name energy resources for generating electricity | <ul style="list-style-type: none"> Discussion Explanation Question and answer | <ul style="list-style-type: none"> Charts Textbooks | <ul style="list-style-type: none"> Writing Answering oral and written qns | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie bk7 Fountain integrated scie bk7 A comprehensive guide for integrated scie bk7 | |
| | 1 | | | <u>An electric circuit</u> <ul style="list-style-type: none"> Definition of a circuit Types of circuits. Parts and uses of the circuit Flow of current and flow of electrons | The Learner should be able to:- <ul style="list-style-type: none"> Define a circuit Identify types of circuits Name the parts and uses of a circuit Differentiate b/n flow of current and flow of electricity | <ul style="list-style-type: none"> Discussion Explanation | <ul style="list-style-type: none"> Cells Bulbs Wires | <ul style="list-style-type: none"> Drawing Experimenting | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie bk7 Fountain integrated scie bk7 Supplementary science std 8 | |
| | 2 & 3 | | | <ul style="list-style-type: none"> Symbols used in an electric circuit Energy changes in a circuit Cells (batteries)/ electrolytes Types of cells (prim & secondary) | The Learner should be able to:- <ul style="list-style-type: none"> Identify the symbols used in a circuit Mention the different energy changes in a circuit Identify types of cells Name the examples of cells | <ul style="list-style-type: none"> Question and answer Discussion | <ul style="list-style-type: none"> Charts Old cells | <ul style="list-style-type: none"> Drawing Writing notes | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie bk7 Fountain integrated scie bk7 Supplementary science std 8 | |
| | 4 | | | <ul style="list-style-type: none"> Parts of a cell and their uses Calculating the voltage of a circuit | The Learner should be able to:- <ul style="list-style-type: none"> Name the parts of a cell and their uses Do simple calculations on voltage | <ul style="list-style-type: none"> Observation Discussion Discovery | <ul style="list-style-type: none"> Old cells Charts | <ul style="list-style-type: none"> Drawing Writing notes | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie bk7 Fountain integrated scie bk7 Supplementary science std 8 | |

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| | 5 | FORMS OF ENERGY | | <u>Bulb</u> <ul style="list-style-type: none"> Parts and their uses Energy changes in a bulb Reasons why a bulb may fail to work when the circuit is complete | The Learner should be able to:- <ul style="list-style-type: none"> Define a bulb Identify the parts of a bulb and their uses Give the reasons why bulbs may fail to work even when the circuit is complete | <ul style="list-style-type: none"> Discussion Explanation Questioning | <ul style="list-style-type: none"> Charts Textbooks BB sketches | <ul style="list-style-type: none"> Observing Drawing Naming parts of a bulb | | <ul style="list-style-type: none"> MK integrated scie bk7 Fountain integrated scie bk7 Supplementary science std 8 | |
| | 6 | | | <ul style="list-style-type: none"> Short circuits (definition) Causes and prevention | The Learner should be able to:- <ul style="list-style-type: none"> Explain short circuits State the causes and prevention of short circuits | <ul style="list-style-type: none"> Explanation Discovery | <ul style="list-style-type: none"> BB sketches Taking notes | <ul style="list-style-type: none"> Taking notes | | <ul style="list-style-type: none"> MK integrated scie bk7 Fountain integrated scie bk7 Supplementary science std 8 | |
| | 7 | | | <ul style="list-style-type: none"> Conductors (definition) Insulators (definition) Uses of conductors and insulators Examples of conductors and insulators | The Learner should be able to:- <ul style="list-style-type: none"> Define conductors and insulators Give examples of conductors and insulators Identify the uses of conductors and insulators | <ul style="list-style-type: none"> Discussion Explanation Experimenting | <ul style="list-style-type: none"> Wires Charts Plastics | <ul style="list-style-type: none"> Carrying out experiments Taking notes | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> Fountain integrated scie Bk7 Supplementary science std 8 | |
| | 8 | | | <u>The electric torch</u> <ul style="list-style-type: none"> How a torch works Reasons why a torch may fail to work Plugs and sockets | The Learner should be able to:- <ul style="list-style-type: none"> Identify the parts of a torch and their uses Give reasons why a torch may fail to work State the use of plugs and sockets | <ul style="list-style-type: none"> Discussion Question and answer Observation | <ul style="list-style-type: none"> Torches Cells Plugs Sockets | <ul style="list-style-type: none"> Drawing Doing an experiment | | <ul style="list-style-type: none"> Fountain integrated scie Bk7 Supplementary science std 8 | |

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| 6 | 1 & 2 | FORMS OF ENERGY | | <ul style="list-style-type: none"> Production of electricity – <i>motors, generators, dynamos, transformers</i> Measurement of power and electricity | The Learner should be able to:- <ul style="list-style-type: none"> State 2 ways of generating electricity Mention how power and electricity are measured | <ul style="list-style-type: none"> Explanation Discussion | <ul style="list-style-type: none"> Charts BB illustrations | <ul style="list-style-type: none"> Taking notes Written exercise | | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 Comprehensive guide to Integrated Scie | |
| | 3 & 4 | | Magnetism | <ul style="list-style-type: none"> Definition of a magnet and magnetism Magnetic and non magnetic materials Alloys – definition | The Learner should be able to:- <ul style="list-style-type: none"> Definition of a magnet Differentiate b/n a magnet and magnetism Identify magnetic and non magnetic materials Explain alloys | <ul style="list-style-type: none"> Discussion Explanation Questioning | <ul style="list-style-type: none"> BB illustrations | <ul style="list-style-type: none"> Taking notes Drawing Naming materials | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 Comprehensive guide to Integrated Scie | |
| | 5 | | | <ul style="list-style-type: none"> Types of magnets (natural and artificial) Properties of magnets | The Learner should be able to:- <ul style="list-style-type: none"> Identify properties of magnets Name types of magnets | <ul style="list-style-type: none"> Discussion Explanation | <ul style="list-style-type: none"> Magnets Charts | <ul style="list-style-type: none"> Taking notes | | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 Comprehensive guide to Integrated Scie | |
| | 6 | | | <ul style="list-style-type: none"> Permanent and temporary magnets Examples of each type of magnet Magnetic lines of force Magnetic field Illustration of magnetic fields | The Learner should be able to:- <ul style="list-style-type: none"> Differentiate between temporary and permanent magnets Give examples of each type of magnet Define magnetic lines and magnetic field | <ul style="list-style-type: none"> Discussion Question and answer Explanation Experimentation | <ul style="list-style-type: none"> Charts Magnets | <ul style="list-style-type: none"> Taking notes Demonstrating Drawing | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 | |

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| | 7 & 8 | | | <ul style="list-style-type: none"> Ways of making magnets How to improve the strength of electro magnets Ways of demagnetizing a magnet Uses of magnets in daily life Devices which use magnets | The Learner should be able to:- <ul style="list-style-type: none"> Make simple magnets Identify examples of magnets made State the uses of magnets in daily life | <ul style="list-style-type: none"> Explanation Experimentation Demonstration | <ul style="list-style-type: none"> Magnets Cells Wires Magnetic materials | <ul style="list-style-type: none"> Demonstrating Taking notes | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> Fountain integrated science Bk7 Supplementary science std 8 | |
| | 1 | TOPICAL REVISION QUESTIONS AND DIAGRAMS | | | | | | | | | |
| 7 | 2 | THE ENVIRONMENT | Energy resources | <ul style="list-style-type: none"> Definition of environment Components of the environment Definition of energy, resource and energy resource Examples of energy resources | The Learner should be able to:- <ul style="list-style-type: none"> Define the term environment Identify the components of the environment Differentiate between energy and energy resource Name examples of energy resource | <ul style="list-style-type: none"> Explanation Demonstration Discussion | <ul style="list-style-type: none"> BB illustrations Sketches | <ul style="list-style-type: none"> Taking notes Answering oral and written questions | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated science Bk7 Fountain integrated science Bk7 Comprehensive guide to Integrated Science | |
| | 3 | | | <ul style="list-style-type: none"> Types of energy resources (renewable and non renewable) Examples of each type of energy resource Soil as a resource | The Learner should be able to:- <ul style="list-style-type: none"> Identify the types of energy resources Give the examples of each type of energy resource Explain how soil is a resource | <ul style="list-style-type: none"> Discussion Question and answer Explanation | <ul style="list-style-type: none"> BB sketches | <ul style="list-style-type: none"> Answering oral questions Filling in exercise | | <ul style="list-style-type: none"> MK integrated science Bk7 Fountain integrated science Bk7 Complete junior physics | |
| | 4 | | | <ul style="list-style-type: none"> Fossil fuels as resources Definition of fossils Examples of fossils | The Learner should be able to:- <ul style="list-style-type: none"> Explain how minerals are energy resources | <ul style="list-style-type: none"> Discussion Explanation | <ul style="list-style-type: none"> Charts BB illustrations | <ul style="list-style-type: none"> Taking notes | | <ul style="list-style-type: none"> MK integrated science Bk7 Supplementary science BK7 | |

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| | | | | <ul style="list-style-type: none"> Uranium as an energy resource | <ul style="list-style-type: none"> Define fossils Identify e.g.s of fossils | | | | | | |
| | 5 | | | <ul style="list-style-type: none"> The sun as an energy resource Water as an energy resource Animals as energy resources Plants as energy resources | The Learner should be able to:- <ul style="list-style-type: none"> Identify the resources in the environment Explain how the examples above act as resources | <ul style="list-style-type: none"> Guided discussion Explanation Question and answer | <ul style="list-style-type: none"> BB sketches Textbooks | <ul style="list-style-type: none"> Naming examples of resources Taking notes | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie Bk7 Supplementary science BK7 | |
| | 6 & 7 | | | <u>Conservation</u> <ul style="list-style-type: none"> Definition of conservation Different ways of conserving different energy resources Biogas production | The Learner should be able to:- <ul style="list-style-type: none"> Define the term conservation State different ways of conserving resources Explain how biogas is produced | <ul style="list-style-type: none"> Questioning Explanation Discussion | <ul style="list-style-type: none"> BB illustrations Textbooks Charts | <ul style="list-style-type: none"> Answering questions orally Taking notes Drawing | | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 | |
| 8 | 1 & 2 | THE ENVIRONMENT | Controlling and managing changes in the environment | <ul style="list-style-type: none"> Conservation Importance of conservation practices Environmental degradation Examples of environmental degradation | The Learner should be able to:- <ul style="list-style-type: none"> Define conservation State the importance of conservation practices Give examples of environmental degradation | <ul style="list-style-type: none"> Explanation Discussion Question and answer | <ul style="list-style-type: none"> BB illustrations Textbooks | <ul style="list-style-type: none"> Writing notes | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 | |
| | 3 & 4 | | | <ul style="list-style-type: none"> Causes of environmental degradation Natural and artificial activities Effects of environmental degradation Measures to control degradation | The Learner should be able to:- <ul style="list-style-type: none"> Mention causes of environmental degradation Identify the effects of degradation State control measures | <ul style="list-style-type: none"> Guided discussion | <ul style="list-style-type: none"> Sketch illustrations | | | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 | |
| | 5 | | | <u>Agro – forestry</u> | The Learner should be able to:- | <ul style="list-style-type: none"> Explanation | <ul style="list-style-type: none"> Charts | <ul style="list-style-type: none"> Answering orally | <ul style="list-style-type: none"> Critical thinking | <ul style="list-style-type: none"> Introduction to Biology | |

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| | | | | <ul style="list-style-type: none"> ▪ Definition of agro-forestry ▪ Importance of agro-forestry ▪ Tree nursery beds ▪ Activities in the tree nursery bed and care | <ul style="list-style-type: none"> ▪ Define agro-forestry ▪ Identify the importance of agro-forestry ▪ Explain how to make a tree nursery bed ▪ State the activities in the tree nursery bed | <ul style="list-style-type: none"> ▪ Discussion ▪ Demonstration | <ul style="list-style-type: none"> ▪ Textbooks | <ul style="list-style-type: none"> and written questions ▪ Taking notes | <ul style="list-style-type: none"> - Appreciation - Problem solving ▪ Effective communication | <ul style="list-style-type: none"> ▪ Supplementary science std8 | |
| | 6 | THE ENVIRONMENT | | <ul style="list-style-type: none"> ▪ Harvesting trees ▪ Conservation of wood ▪ Importance of rural electrification | The Learner should be able to:- <ul style="list-style-type: none"> ▪ State methods of harvesting trees for wood ▪ Name methods of conserving wood fuel ▪ State the importance of rural electrification | <ul style="list-style-type: none"> ▪ Explanation ▪ Discussion | <ul style="list-style-type: none"> ▪ Charts ▪ Textbooks | <ul style="list-style-type: none"> ▪ Answering oral questions ▪ Explanation | | <ul style="list-style-type: none"> ▪ Introduction to Biology ▪ Supplementary science std8 | |
| | 7 & 8 | | ENVIRONMENTAL DEGRADATION | <u>Land fragmentation and its definition</u> <ul style="list-style-type: none"> ▪ Causes of land fragmentation ▪ Soil conservation ▪ Importance of soil conservation and practices | The Learner should be able to:- <ul style="list-style-type: none"> ▪ Define land fragmentation ▪ Identify the causes of fragmentation ▪ State importance of soil conservation and practices | <ul style="list-style-type: none"> ▪ Discussion ▪ Explanation | <ul style="list-style-type: none"> ▪ Textbooks ▪ BB illustrations | <ul style="list-style-type: none"> ▪ Discussing in groups ▪ Explanation of terms ▪ Taking notes | | <ul style="list-style-type: none"> ▪ Fountain integrated science bk7 ▪ Supplementary science std 8 | |
| 9 | 1 & 2 | | | <u>Wetlands</u> <ul style="list-style-type: none"> ▪ Definition of wetlands ▪ Examples of wetlands ▪ Importance of wetlands ▪ Wetland degradation ▪ Why people drain wetlands ▪ Effects of wetland drainage ▪ How wetlands can be protected | The Learner should be able to:- <ul style="list-style-type: none"> ▪ Define the term wetlands ▪ Name examples of wetlands ▪ State the importance of wetlands ▪ Give ways of controlling wetland abuse | <ul style="list-style-type: none"> ▪ Discussion ▪ Question and answer | <ul style="list-style-type: none"> ▪ CB sketches ▪ Textbooks ▪ BB illustrations | <ul style="list-style-type: none"> ▪ Taking notes ▪ Answering | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving ▪ Effective communication | <ul style="list-style-type: none"> ▪ MK integrated science Bk7 ▪ Fountain integrated science Bk8 | |

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| | 3 | | | <ul style="list-style-type: none">▪ <u>Bio-diversity</u> (definition)▪ Importance of bio-diversity▪ Extinction of endangered species▪ Control of loss of bio-diversity | The Learner should be able to:- <ul style="list-style-type: none">▪ Define bio-diversity▪ State the importance of bio-diversity▪ Give 4 examples of endangered species | <ul style="list-style-type: none">▪ Discussion▪ Explanation▪ Questioning | <ul style="list-style-type: none">▪ Textbooks▪ CB illustrations | <ul style="list-style-type: none">▪ Taking notes▪ Discussing in groups | | <ul style="list-style-type: none">▪ Supplementary science std 8▪ MK integrated science Bk7 | |
| | 4 & 5 | THE ENVIRONMENT | | <ul style="list-style-type: none">▪ <u>Pollution</u> (definition)▪ Pollutants▪ Examples of pollutants▪ Types of pollution (air, water, soil, sound)▪ Effects of pollution.▪ Control measures of pollution | The Learner should be able to:- <ul style="list-style-type: none">▪ Tell the meaning of pollution▪ Give examples of pollutants▪ State the types of pollution▪ Identify control measures of pollution | <ul style="list-style-type: none">▪ Question and answer technique▪ Discussion | <ul style="list-style-type: none">▪ Polythene bags▪ Chemicals▪ Old bottles and tins | <ul style="list-style-type: none">▪ Answering oral questions▪ Taking notes | <ul style="list-style-type: none">- Critical thinking- Appreciation- Problem solving▪ Effective communication | <ul style="list-style-type: none">▪ Supplementary science std 8▪ MK integrated science Bk7 | |
| | 6 | | | <ul style="list-style-type: none">▪ Management of solid wastes▪ 5R's in waste management (Re-use, Reduce, Return, Refuse, Reject) | The Learner should be able to:- <ul style="list-style-type: none">▪ Define the term recycling▪ Identify ways of waste management using the 5 R's | <ul style="list-style-type: none">▪ Explanation▪ Discussion | <ul style="list-style-type: none">▪ Textbooks▪ Polythene bags▪ Jerrycans | <ul style="list-style-type: none">▪ Defining▪ Answering oral questions | | <ul style="list-style-type: none">▪ MK integrated scie Bk7▪ Fountain integrated scie Bk7 | |
| | 7 & 8 | | | <ul style="list-style-type: none">▪ Way forward to overcome environmental problems in Uganda▪ Roles of NEMA▪ Community and environmental involvement | The Learner should be able to:- <ul style="list-style-type: none">▪ Identify ways to overcome environmental problems in Uganda▪ State 2 roles of NEMA and roles of the community in environmental management | <ul style="list-style-type: none">▪ Questioning technique▪ Discussion | <ul style="list-style-type: none">▪ Charts▪ BB work▪ Cut outs from newspapers | <ul style="list-style-type: none">▪ Taking notes▪ Filling in blanks▪ Answering written questions | <ul style="list-style-type: none">- Critical thinking- Appreciation- Problem solving▪ Effective communication | <ul style="list-style-type: none">▪ MK integrated scie Bk7▪ Fountain integrated scie Bk7 | |
| | | TOPICAL REVISION QUESTIONS AND DIAGRAMS | | | | | | | | | |

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| 1 | 1 | MATTER AND ENERGY | SIMPLE MACHINES | <ul style="list-style-type: none"> - Meaning of machines - Types of machines - Complex machines - Simple machines - Advantages of machines - Terms used in machines (work, force, power) | The Learner should be able to: <ul style="list-style-type: none"> - Explain the term machine - State the different types of machines - State advantages of machines - Describe terms used in machines. | <ul style="list-style-type: none"> - Explanation - Discussion - | - C/board illustrations | - Taking notes | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving - Effective communication | - Comprehensive Primary Science Bk 7. | - |
| | 7 | | LEVERS | <ul style="list-style-type: none"> - Calculating work done. - Simple machines - Definitions - Terms used in simple machines. - (MA) velocity, ration, efficiency, load, effort, load, arm, effort arm, pivot (fulcrum) - Classification(order) of simple machines - Levers – pulleys - Wheel and axel – wedges - Screws, inclined plane (slope) Levers: <ul style="list-style-type: none"> - Definition - Classes of levers (1st 2nd, 3rd class levers) - Characteristics and examples of each class. - Advantages of each class. | The Learner should be able to: <ul style="list-style-type: none"> - Calculate work done in machines - Define different terms used in machines i.e. M.A, V.R Efficiency, load, effort, E.A, L.A - Name the different examples of simple machines. - Define levers - Mention different classes of levers - Identify the examples and characteristics of each class of levers. | <ul style="list-style-type: none"> - Discussion - Observation - Demonstration | <ul style="list-style-type: none"> - Charts - C/board illustration - Pulleys wheels gears rollers - Scissors - Pliers - Spades - Knives - Wheel barrow - Metal rods | <ul style="list-style-type: none"> - Writing - Drawing - Answering oral questions - Demonstrating how machines work | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving - Effective communication | <ul style="list-style-type: none"> - Functional Primary Science Bk 7 - Comprehensive Primary Science Bk 7. - New Uganda Primary Integrated Science Bk 7 | - |

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| 20 | 2 | | | <ul style="list-style-type: none"> - Law of levers - Calculations on levers | The Learner should be able to: <ul style="list-style-type: none"> - State the law of levers - Carry out calculations on levers | <ul style="list-style-type: none"> - discussion - discovery | <ul style="list-style-type: none"> - C/board illustration | <ul style="list-style-type: none"> - Writing exercises on calculations | | <ul style="list-style-type: none"> - MK integrated Primary Science Bk 7 | - |
| | 2 | | INCLINED PLANES | Inclined plane: <ul style="list-style-type: none"> - Definition - Examples of inclined planes - Advantages of using slopes/inclined plane - Application in daily life | The Learner should be able to: <ul style="list-style-type: none"> - Define an inclined plane - State examples of inclined planes - Mention advantages of using slopes/inclined planes. | <ul style="list-style-type: none"> - Explanation - Discussion - Demonstration | <ul style="list-style-type: none"> - Planks - Strings - Stones - Tables | <ul style="list-style-type: none"> - Doing practical work | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving - Effective communication | <ul style="list-style-type: none"> - Fountain Integrated Primary Science Bk 7 | - |
| 21 | 2 | MATTER AND ENERGY | | <ul style="list-style-type: none"> - Calculations on inclined planes. | The Learner should be able to: <ul style="list-style-type: none"> - Carry out calculations on planes | <ul style="list-style-type: none"> - Explanation - Practice drill - Discovery | <ul style="list-style-type: none"> - Chalk board illustrations and sketches | <ul style="list-style-type: none"> - Writing exercises | | <ul style="list-style-type: none"> - Oxford Primary Science Bk 7 | - |
| | 1 | | WEDGES | Wedges: <ul style="list-style-type: none"> - Definition of wedges - Examples of wedges - Advantages of using wedges - Application of wedges in daily life | The Learner should be able to: <ul style="list-style-type: none"> - Define a wedge - Mention the advantages of using screws - State examples of machines that use screws in daily life. | <ul style="list-style-type: none"> - Discussion - Explanation - Observation | <ul style="list-style-type: none"> - Screws - Charts - Nuts - Bolts - Charts | <ul style="list-style-type: none"> - Carrying out an experiment - Writing notes - drawing diagrams | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving - Effective communication | <ul style="list-style-type: none"> - Functional Primary Science for Uganda Bk 7 - MK integrated Primary Science Bk. 7 | - |
| | 1 | | SCREWS | Screws: <ul style="list-style-type: none"> - Definition of screws - Advantages of using screws - Application of screws in daily life | The Learner should be able to: <ul style="list-style-type: none"> - Mention the advantages of using screws - State examples of machines that use screws in daily life | <ul style="list-style-type: none"> - discussion - explanation - observation | <ul style="list-style-type: none"> - screws - charts - nuts - bolts - charts | <ul style="list-style-type: none"> - carrying out an experiment - writing notes - drawing diagrams | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving - Effective communication | <ul style="list-style-type: none"> - MK integrated Primary Science Bk 7 - Fountain Integrated Science Bk 7 | - |
| 22 | 4 | | WHEEL AND AXLE | Wheel and axle: <ul style="list-style-type: none"> - Definition | The Learner should be able to: | <ul style="list-style-type: none"> - Explanation - Discussion - Discovery | <ul style="list-style-type: none"> - Wheel - Bolts - Charts | <ul style="list-style-type: none"> - Group discussion | <ul style="list-style-type: none"> - Critical thinking - Appreciation | <ul style="list-style-type: none"> - Oxford Primary Science Bk 7 | - |

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| | | | | <ul style="list-style-type: none"> - Examples of wheel and axle eg wind lass, steering wheel, etc - Advantages of using the wheel and axle. - Application of wheels and axle in daily life | <ul style="list-style-type: none"> - Define a wheel and axle. - Mention examples of machines that use the wheel and axle - Identify the advantages of using the wheel and axle. | | | <ul style="list-style-type: none"> - Taking notes - Drawing - Answering oral questions | <ul style="list-style-type: none"> - Problem solving - Effective communication | - Comprehensive Primary Science Bk 7 | |
| 2 3 | | | WHEELS AND BELTS | Wheels and belts: <ul style="list-style-type: none"> - Definition - Examples of machines that use conveyor belts e.g. sewing machines, vehicles, factories, quarries, etc - <u>Gears/toothed wheels</u> - Importance - Examples of machines that use gears eg watches, gear box in vehicles, etc - Rotation of two or more gear wheels in contact. | The Learner should be able to: <ul style="list-style-type: none"> - Define conveyor belts - Mention machines that use conveyor belts - Mention examples of machines that use gears/toothed wheels - State the advantage of using conveyor belts, gears and toothed wheels. | <ul style="list-style-type: none"> - Discussion - Explanation - Demonstration - Observation - Discovery - Application | <ul style="list-style-type: none"> - Wheels (pulleys) - Rubber bands - Charts - Toothed wheels - chalk boards sketches | <ul style="list-style-type: none"> - taking notes - drawing diagrams | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving | <ul style="list-style-type: none"> - Comprehensive Primary Science Bk 7 - Oxford Primary Science Bk 7 | - |
| 4 | | | PULLEYS | Pulleys <ul style="list-style-type: none"> - Definition of pulleys - Types of pulleys (single) Fixed, movable pulleys) - Block and tackle - Characteristics of each type - Mechanical advantage of each type - Advantages of using each type - Application of pulleys in daily life - Single fixed pulley (1st class lever) - Single movable pulley (2nd class lever) | The Learner should be able to: <ul style="list-style-type: none"> - Define the term "pulley" - Mention examples of pulley types - Describe the characteristics of each pulley system. - Identify the advantage of using any of the given pulley systems. - Calculate for effort on pulley systems. | <ul style="list-style-type: none"> - Explanation - Discussion - Question and answer - Discovery | <ul style="list-style-type: none"> - Pulley blocks - Charts - Chalk board illustrations | <ul style="list-style-type: none"> - Taking notes - Doing some practical work - Demonstrating how pulleys work - Writing an exercise | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving | <ul style="list-style-type: none"> - Functional Primary Science for Uganda Bk 7 - Oxford Primary Science Bk 7 | - |

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| 24 | 2 | | FRICTION | Friction: <ul style="list-style-type: none"> - definition - Types of friction eg: limiting, static - dynamic/rolling - viscosity - advantages/disadvantages of friction - ways of increasing/reducing friction - topical questions | The Learner should be able to: <ul style="list-style-type: none"> - Define friction - Mention the different types of friction - Identify the advantages/disadvantages of friction - State different ways of increasing/reducing friction in machines - Answer the topical questions. | <ul style="list-style-type: none"> - Discussion - Explanation - Demonstration - Experimentation | <ul style="list-style-type: none"> - Chart - Bicycle - Rollers - Grease - Oil - Ball bearings | <ul style="list-style-type: none"> - Observing parts of a bicycle - Taking notes - Drawing diagrams | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving | <ul style="list-style-type: none"> - Functional Primary Science for Uganda Bk 7 - Comprehensive Science Bk 7 | - |
| | 4 | BODY SYSTEMS | EXCRETORY SYSTEMS | <ul style="list-style-type: none"> - Definition of excretion - Excretory organs and their products eg. A – The skin: <ul style="list-style-type: none"> - Structure and function of different parts. - Uses of the skin - Skin diseases - Care for the skin B – kidneys: <ul style="list-style-type: none"> - Structure and function of the kidney parts - Functions of the kidney - Diseases of the kidney & Care of the kidneys | The Learner should be able to: <ul style="list-style-type: none"> - Define the term excretion - Mention the excretory organs and their waste products - Name different parts of the skin and give their functions - Name different parts of the kidney and give their functions - Name different parts of the kidney and give their functions - name diseases of the skin and the kidney | <ul style="list-style-type: none"> - discussion - explanation - question and answer - discussion | <ul style="list-style-type: none"> - charts - chalk board sketches and illustrations - pupils texts - taking notes - drawing diagrams | <ul style="list-style-type: none"> - Taking notes - Drawing diagrams - Taking note | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving | <ul style="list-style-type: none"> - Fountain Integrated Primary Science Bk 7 - New Uganda Primary Integrated Science Bk 7 | - |
| | 4 | | EXCRETORY SYSTEM | C - The lungs: <ul style="list-style-type: none"> - The structure and function of parts of the lungs - Importance of the lungs - Diseases of the lungs - Care for the lungs D - The Liver: | The Learner should be able to: <ul style="list-style-type: none"> - Name the different parts of the lungs and give their functions - Identify the diseases of the lungs - State ways of caring for the lungs. | <ul style="list-style-type: none"> - Explanation - Discussion - Question and answer - Discussion - Explanation - Discovery | <ul style="list-style-type: none"> - Charts - Model lungs - Pupils texts - Charts - Chalk board sketches | <ul style="list-style-type: none"> - Taking notes - Drawing and labeling diagrams - Taking notes | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving | <ul style="list-style-type: none"> - Oxford Primary Science Bk 7 - MK Integrated Primary Science Bk 7 | - |

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| | | | | <ul style="list-style-type: none"> - General functions of the liver - Diseases of the liver - Control/prevention of the diseases - Care for the liver. | | | | - Drawing diagrams and labeling | | | |
| 10 | 1 | FORMS OF ENERGY | Light | <ul style="list-style-type: none"> ▪ Definition of light ▪ Sources of light ▪ Natural sources of light and examples ▪ Artificial sources of light and examples ▪ Uses of light | The Learner should be able to:- <ul style="list-style-type: none"> ▪ Define the term light ▪ Name the different sources of light ▪ Give examples of natural and artificial sources ▪ State 4 uses of light | <ul style="list-style-type: none"> ▪ Discussion ▪ Question and answer | <ul style="list-style-type: none"> ▪ Charts ▪ CB illustrations | <ul style="list-style-type: none"> ▪ Taking notes ▪ Listing examples of light sources | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving ▪ Effective communication | <ul style="list-style-type: none"> ▪ MK integrated scie Bk7 ▪ Fountain integrated scie Bk7 | |
| | 2 | | | <ul style="list-style-type: none"> ▪ Transmission of light – how light travels ▪ Experiments on transmission of light | The Learner should be able to:- <ul style="list-style-type: none"> ▪ Explain how light travels ▪ Carry out simple experiments on transmission of light | <ul style="list-style-type: none"> ▪ Explanation ▪ Experimentation ▪ Discovery | <ul style="list-style-type: none"> ▪ Torches ▪ Cells ▪ Cardboard ▪ CB sketches | <ul style="list-style-type: none"> ▪ Carrying out experiments ▪ Taking notes | | <ul style="list-style-type: none"> ▪ MK integrated scie Bk7 ▪ Fountain integrated scie Bk7 | |
| | 3 | FORMS OF ENERGY | | <u>Beams of light</u> <ul style="list-style-type: none"> ▪ Types of beams ▪ Effects of light on different materials (opaque, translucent and transparent materials) | The Learner should be able to:- <ul style="list-style-type: none"> ▪ Define the term "beams" of light ▪ Name the types of beams ▪ State the effect of light on different materials | <ul style="list-style-type: none"> ▪ Discussion ▪ Explanation ▪ Demonstration | <ul style="list-style-type: none"> ▪ Polythene paper ▪ Oil ▪ Cells ▪ Torches ▪ CB illustrations | <ul style="list-style-type: none"> ▪ Discussing in groups ▪ Taking notes | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving ▪ Effective communication | <ul style="list-style-type: none"> ▪ MK integrated scie Bk7 ▪ Fountain integrated scie Bk7 | |
| | 4 & 5 | | | <ul style="list-style-type: none"> ▪ <u>Shadows</u> – definition ▪ How shadows are formed ▪ Characteristics of shadows ▪ Eclipses – definition ▪ How eclipses are formed. | The Learner should be able to:- <ul style="list-style-type: none"> ▪ Define the term "shadow" ▪ Explain how shadows are formed ▪ Identify the characteristics of shadows | <ul style="list-style-type: none"> ▪ Discussion ▪ Explanation ▪ Demonstration | <ul style="list-style-type: none"> ▪ Charts ▪ Torches ▪ Cells ▪ CB illustrations | <ul style="list-style-type: none"> ▪ Taking notes ▪ Drawing diagrams | <ul style="list-style-type: none"> - Critical thinking - Appreciation - Problem solving ▪ Effective communication | <ul style="list-style-type: none"> ▪ MK integrated scie Bk7 ▪ Fountain integrated scie Bk7 | |

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| 1 1 | 6 | FORM S OF | | <ul style="list-style-type: none"> What affects the size of shadows | <ul style="list-style-type: none"> Explain what shadows are and how they are formed | | | | | | |
| | 7 & 8 | | | <ul style="list-style-type: none"> Effect of light on shiny objects Types of reflection Laws of reflection Calculations on reflection Importance of reflection. | The Learner should be able to:- <ul style="list-style-type: none"> State the effect of light on shiny objects List 3 laws of reflection Carry out calculations on reflection correctly | <ul style="list-style-type: none"> Explanation Question and answer | <ul style="list-style-type: none"> Charts CB illustrations | <ul style="list-style-type: none"> Taking notes Drawing diagrams | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> MK integrated scie Bk7 Fountain integrated scie Bk7 | |
| | 7 & 8 | | | <ul style="list-style-type: none"> Characteristics of images formed in a plane mirror Illustrations on the characteristics of images on a plane mirror Uses of plane mirrors | The Learner should be able to:- <ul style="list-style-type: none"> Identify the characteristics of images formed on a plane mirror State at least 4 uses of plane mirrors in daily life | <ul style="list-style-type: none"> Discussion Experimentation Question and answer | <ul style="list-style-type: none"> Charts Plane mirrors | <ul style="list-style-type: none"> Taking notes Carrying out experiments | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> Complete junior physics Supplementary science std8 | |
| | 1 | | | <ul style="list-style-type: none"> Curved mirrors and their examples Characteristics of images on curved mirrors Common uses of curved mirrors in daily life | The Learner should be able to:- <ul style="list-style-type: none"> List the examples of curved mirrors State 2 characteristics of curved mirrors Give at least 2 uses of curved mirrors in daily life | <ul style="list-style-type: none"> Explanation Discussion | <ul style="list-style-type: none"> Curved mirrors Charts | <ul style="list-style-type: none"> Writing notes Listing Drawing | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> Complete junior physics Supplementary science std8 | |
| | 2 | | | <ul style="list-style-type: none"> <u>Refraction</u> – definition Effects of refraction of light Experiments on refraction of light Mirages | The Learner should be able to:- <ul style="list-style-type: none"> Explain the term refraction List the effects of refraction of light Carry out simple experiments on refraction of light | <ul style="list-style-type: none"> Question and answer Discussion | <ul style="list-style-type: none"> Mirrors Charts CB illustrations | <ul style="list-style-type: none"> Taking notes Drawing Performing | | <ul style="list-style-type: none"> Complete junior physics Supplementary science std8 | |

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| | | ENERGY | | | <ul style="list-style-type: none">Explain mirages and state their effects | | | | | | |
| 3 | | | | <ul style="list-style-type: none">Lenses – definitionTypes of lenses and their examplesUses of lensesDifferences between lenses. | The Learner should be able to:- <ul style="list-style-type: none">Explain the meaning of lensesIdentify the types of lenses and state their use in daily lifeIdentify the differences between lenses. | <ul style="list-style-type: none">ExplanationExperimentation | <ul style="list-style-type: none">LensesChartsCB illustrations | <ul style="list-style-type: none">Taking notes | <ul style="list-style-type: none">Critical thinkingAppreciationProblem solvingEffective communication | <ul style="list-style-type: none">Complete junior physicsSupplementary science std8 | |
| 4 | | | | <u>Optical instruments</u> Definition <ul style="list-style-type: none">Examples of optical instrumentsUses of optical instrumentsHow some of the instruments work | The Learner should be able to:- <ul style="list-style-type: none">Give examples of some optical instrumentsGive uses of the named optical instruments and how they work | <ul style="list-style-type: none">DiscussionQuestion and answer | <ul style="list-style-type: none">Some optical instrumentsCB sketches | <ul style="list-style-type: none">Taking notesDrawing | <ul style="list-style-type: none">Critical thinkingAppreciationProblem solvingEffective communication | <ul style="list-style-type: none">Complete junior physicsSupplementary science std8 | |
| 5 | | | | <ul style="list-style-type: none">Dispersion of light (spectrum)Meaning of dispersionThe rainbowHow it is formed | The Learner should be able to:- <ul style="list-style-type: none">Explain the dispersion of lightState the meaning of spectrumExplain how a rainbow is formed | <ul style="list-style-type: none">DiscussionExperimentation | <ul style="list-style-type: none">ChartsCB illustrations | <ul style="list-style-type: none">Taking notesDrawing | <ul style="list-style-type: none">Critical thinkingAppreciationProblem solvingEffective communication | <ul style="list-style-type: none">Complete junior physicsSupplementary science std8 | |
| 6 | | | <ul style="list-style-type: none">Colours of objects in white lightIllustration using the colour wheelPrimary, secondary and the complementary colours | The Learner should be able to:- <ul style="list-style-type: none">State the effect of coloured light on different objectsExplain how primary, secondary and complementary colours are formed | <ul style="list-style-type: none">DiscussionExperimentation | <ul style="list-style-type: none">Different coloursMotorDry cells | <ul style="list-style-type: none">DrawingNote takingMixing colours | <ul style="list-style-type: none">Critical thinkingAppreciationProblem solvingEffective communication | <ul style="list-style-type: none">Complete junior physicsSupplementary science std8 | | |

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| | 7 & 8 | FORM S OF ENERGY | | <u>The pinhole camera</u> <ul style="list-style-type: none"> Characteristics of images formed in a pinhole camera How it works Making a pin hole camera. | The Learner should be able to:- <ul style="list-style-type: none"> Explain how a pinhole camera is made Name the characteristics of images formed in a pinhole camera Identify the parts of a lens camera and how it works | <ul style="list-style-type: none"> Explanation Discussion | <ul style="list-style-type: none"> Simple pinhole camera Old photographic camera | <ul style="list-style-type: none"> Making simple pinhole camera Notes taking | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> Complete junior physics Supplementary science std8 | |
| 1 2 | 1 & 2 | | | <u>The human eye</u> <ul style="list-style-type: none"> The structure and function of the parts Comparison b/n the human eye and the camera Comparison of images formed in human eye and plane mirror. | The Learner should be able to:- <ul style="list-style-type: none"> Draw the human eye Name the different parts and give their uses State the similarities and the differences b/n a lens camera and human eye | <ul style="list-style-type: none"> Guided discussion Explanation | <ul style="list-style-type: none"> CB illustrations Chart | <ul style="list-style-type: none"> Drawing Taking notes | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> Complete junior physics Supplementary science std8 | |
| | 3 & 4 | | | <ul style="list-style-type: none"> Diseases and defects of the eye Prevention and treatment of the defects and diseases Care for the eye | The Learner should be able to:- <ul style="list-style-type: none"> Name the diseases and defects of the eye Explain how to prevent and treat the diseases State how to care for our eyes | <ul style="list-style-type: none"> Discussion Explanation | <ul style="list-style-type: none"> CB illustrations | <ul style="list-style-type: none"> Note taking | <ul style="list-style-type: none"> Critical thinking Appreciation Problem solving Effective communication | <ul style="list-style-type: none"> Complete junior physics Supplementary science std8 | |
| 11 | 9 | INTERDEPENDENCE | ENVIRONMENT | <ul style="list-style-type: none"> Definition of environment. Components of environment. Classification of the components according to living and non-living. Description of | <ul style="list-style-type: none"> Define environment Identify components of environment Describe interdependence. Describe how things depend on each other in our environment | Explanation Discussion Question and answer. | | | | Fountain Primary Science bk 4 Pgs 42 - 51 Comprehensive Primary Science bk 4 Pg 83 – 87 | |

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| | | OF THINGS | | interdependence ♣ How living things depend on non- living things. ♣ How living things depend on each other. ♣ How animals depend on plants. (seed dispersal) ♣ How plants depend on animals. ♣ How animals depend on each other. (food chain / food web). i. Internal parasites. ii. External parasites. iii. Predators iv. Prey | | Demonstration | | | | MK Inter. Primary Science bk 4 Pgs 47 – 58 | |
| | | | | ■ Agro forestry ♣ Meaning ♣ Advantages ♣ Ways of Proper wood harvesting ♣ Ways of Proper wood treatment | | ■ | ■ | ■ | - | ■ | |

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