

PRIMARY SEVEN SCHEME OF WORK FOR SCIENCE I

WK	PD	THEME	TOPIC/ SUB TOPIC	SUBJECT COMPETENCES	LANGUAGE COMPETENCES	CONTENT	SUGGESTED ACTIVITIES	T/L AIDS	REF
	1 & 2	Human Body	Muscular skeletal system. The structure of human skeleton.	The learner, <ul style="list-style-type: none"> ♣ Draws and names the parts. ♣ Defines the skeleton ♣ Explains types and importance of the skeleton. 	The learner, <ul style="list-style-type: none"> ♣ Writes words connected to the skeleton. ♣ Names different parts of the skeleton. 	<ul style="list-style-type: none"> - The structure of the human skeleton. - Types of skeletons. - Importance of skeleton. 	<ul style="list-style-type: none"> - Drawing and naming the parts of the skeleton. 	Chart Chalk board Illustration Text bks.	-do-
	3		Names of different bones.	The learner, <ul style="list-style-type: none"> ♣ Names the different bones in the body. 	The learner, <ul style="list-style-type: none"> ♣ Spells he names of different bones in the body. 	<ul style="list-style-type: none"> - The Names of different bones. - Long bones - Short bones - Irregular bones - Flat bones - Examples of; - Long bones - Short bones - Irregular bones - Flat bones 	<ul style="list-style-type: none"> - Naming the bones - Spelling the words. 	Chart Chalk board Illustration Text bks.	-do-
	4	Human Body	Joints	The learner, <ul style="list-style-type: none"> ♣ Lists types of joints. ♣ Gives examples of each type of joints. ♣ Describes uses of joints. 	The learner, <ul style="list-style-type: none"> ♣ Writes down the name of joints. 	<ul style="list-style-type: none"> - What are joints - Types of joints. - Examples of each type of joints. - Importance of joints. 	<ul style="list-style-type: none"> - Naming the joints found in the body. 	Chart Chalk board Illustration Text bks.	Mk integrated Science Bk.7 Comprehension Science BK 7 Fountain integrated Sci. BK 7
	5		Muscles	The learner, <ul style="list-style-type: none"> ♣ Tells what muscles are. ♣ States the type of muscles. 	The learner, <ul style="list-style-type: none"> ♣ Describes how muscles work. 	<ul style="list-style-type: none"> - The meaning of muscles. - Type of 	<ul style="list-style-type: none"> - Defining the term muscles. - Stating the type of 	Chalk board. Illustration.	

		Human		Mentions the importance of muscles.		<ul style="list-style-type: none"> muscles. - Examples of each type. - Importance of muscles. 	<ul style="list-style-type: none"> muscles. - Outlining importance of muscles. 		-do-
	6 & 7	Body	Diseases and disorders of the skeletal system. Prevention of muscular and skeletal diseases.	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Identifies the disorders and diseases of the system. ♣ Explains the preventive measures of the above diseases. 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Spells the words related to system. ♣ Outlines the ways of preventing the diseases of the system. 	<ul style="list-style-type: none"> - Diseases and disorders of the system. - Prevention of Muscular and skeletal system. 	<ul style="list-style-type: none"> - Outlining of the diseases and disorders. - Discussing of the preventive measures. 	-do-	-do-
	8 & 9		Posture and it's importance. How to keep the skeletal system healthy.	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Defines the posture. ♣ Illustrates and demonstrates the correct body posture. ♣ Describes good health habits for the system. 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Writes guided notes on good health habits. 	<ul style="list-style-type: none"> - The meaning of body posture. - Good and bad body posture. - Importance of good body posture. - How to keep the healthy skeletal system. 	<ul style="list-style-type: none"> - Writing guided notes on good health habits. 	<p>Chalk board Illustration</p> <p>Chart</p> <p>Text bks</p>	-do-
	1 & 2		ELECTRICITY (Types of electricity)	<ul style="list-style-type: none"> ♣ The learner <ul style="list-style-type: none"> i) defines electricity ii) identifies sources and types of electricity iii) experiments with static electricity 	<ul style="list-style-type: none"> ♣ The learner: <ul style="list-style-type: none"> i) Reads words and sentences on electricity ii) Write words, sentences and short stories about electricity 	<ul style="list-style-type: none"> i) What electricity is. ii) Types of electricity <ul style="list-style-type: none"> - Current electricity - Static electricity iii) Forms of electricity 	<ul style="list-style-type: none"> - - Generating static electricity 	<p>Dry cells, combs, torches</p>	Mk intergrated science bk 7

3 & 4	MATTER AND ENERGY	Sources of electricity	The learners: i) Identifies sources of electricity ii) Describes ways different sources produce electricity.	♣ The learner; - Names sources of direct and alternating current electricity.	<ul style="list-style-type: none"> • Sources of direct and current electricity - Dry cell • Sources of alternating current electricity (AC) <ul style="list-style-type: none"> - Hydro electricity - Thermal electricity - Solar electricity - Geo- thermal - Nuclear electricity 	- Assembling an electric circuit	<ul style="list-style-type: none"> - Dry cells - Conductin g wires - bulbs 	- do-
5 & 6		An electric circuit and symbols used.	<ul style="list-style-type: none"> ♣ Learner defines an electric circuit ♣ Names the parts of a circuit. ♣ Outlines the uses of the components of an electric circuit. ♣ Describes the flow of current. ♣ Tells the symbols. 	<ul style="list-style-type: none"> ♣ Learner defines an electric circuit. ♣ Names and outlines the uses of the parts of a circuit. ♣ Correctly spells the words related to the circuit. ♣ Draws an illustration about the flow of current. ♣ Draws the symbols as used in a circuit. 	<ul style="list-style-type: none"> - Definition of the circuit. - Parts of an electric circuit. - Uses of the components of a circuit. - The flow of current in a circuit. - The symbols of a circuit. 	<ul style="list-style-type: none"> - Defining the circuit. - Naming the parts of a circuit. - Stating uses of a circuit. - Spelling the words related to a circuit. - Drawing the symbols. 	Electric bulbs and wires. Chalk board illustration Chart.	Mk integrated Science Bk.7 Compre nsion Science BK 7 Fountain integrated Sci. BK 7
7		Energy changes in a circuit	<ul style="list-style-type: none"> ♣ Learner describes energy changes in a circuit. ♣ Names the forms of energy in a dry cell and electric bulb. 	<ul style="list-style-type: none"> ♣ Learner explains energy changes. ♣ Names the forms of energy in dry cells and electric bulb 	- Energy changes in a circuit.	<ul style="list-style-type: none"> - Describing energy changes in a circuit. - Naming forms of energy in a bulb 	-do-	-do-

8	MATTER AND ENERGY	Wet cells and dry cells.	<ul style="list-style-type: none"> ♣ Learner names the primary and secondary cells ♣ Draw the wet cell. ♣ Correctly describe the terms like polarization, local action and electrolytes. 	<ul style="list-style-type: none"> ♣ Learner describes the wet cells. ♣ Discusses the terms electrolyte, local action and polarization. ♣ Define electrolyte and give examples. 	<ul style="list-style-type: none"> - Secondary and primary cells. - Electricity, electrodes, polarization and local action. 	<ul style="list-style-type: none"> - Describing how dry and wet cells work. - Defining electrodes, electrolytes, polarization and local action. 	<p>Chart chalk board illustration.</p> <p>Text books.</p>	-do-
9		Parts of a dry cells and their uses.	<ul style="list-style-type: none"> ♣ Learner names the parts of a dry cell. ♣ States the uses of the parts of the cell. ♣ Calculates the voltage of a dry cell (brand new) 	<ul style="list-style-type: none"> ♣ Learner names the parts of a dry cell. ♣ Explains the use of the parts. ♣ Outlines the parts found in the dry cell. 	<ul style="list-style-type: none"> - Parts of a dry cell. - The uses of the parts of a dry cell. - The meaning of voltage and how to calculate voltage of brand new dry cells. 	<ul style="list-style-type: none"> - Showing the parts of a dry cell. - Outlining the uses of the parts of a dry cell. - Defining voltage. - Calculating voltage 	-do-	<p>Mk integrated Science Bk.7</p> <p>Comprehension Science BK 7</p> <p>Fountain integrated Sci. BK 7</p>
1		The bulb and its parts.	<ul style="list-style-type: none"> ♣ Learner draws and names the parts of an electric bulb. ♣ Explains energyin a bulb. ♣ States the reason why the bulb may fail to work when the circuit is complete. 	<ul style="list-style-type: none"> ♣ Learner describes the bulb parts after drawing. ♣ Explains why a new bulb may fail to produce light when the circuit is complete. ♣ Correctly spells words related to the bulb. 	<ul style="list-style-type: none"> - Parts of an electric bulb. - Energy changes in a bulb. - Reasons why a brand new bulb may fail to give out light when the circuit is complete. 	<ul style="list-style-type: none"> - Drawing the parts of a bulb. - Explaining energy changes. - Outlining reasons why the bulb fails to produce light when the circuit is complete. 	<p>Chart chalk board</p> <p>Text books</p>	-do-

2	MATTER	A short circuit	<ul style="list-style-type: none"> ♣ Learner explains what a short circuit is and how it is caused and prevented. 	<ul style="list-style-type: none"> ♣ Learner discusses the meaning of a short circuit. ♣ Explains the causes and prevention of short circuits. 	<ul style="list-style-type: none"> - The short circuit. - The causes. - Prevention. 	<ul style="list-style-type: none"> - Defining the short circuit. - Stating causes of a short circuit. - Stating the prevention of a short circuit. 	Chart chalk board Text books	
3		Conductors and insulators.	<ul style="list-style-type: none"> ♣ Lerner defines conductors. ♣ States the examples of conductors and uses of conductors. ♣ Defines insulators. ♣ States the examples of insulators. ♣ Explains the uses of insulators. ♣ Explains the definition of electrolytes and their examples. 	<ul style="list-style-type: none"> ♣ Learner gives the meaning and examples of conductors and insulators. ♣ States the uses of conductors and insulators. 	<ul style="list-style-type: none"> - The conductors and insulators. - Examples of conductors and insulators. - The uses of conductors and insulators. 	<ul style="list-style-type: none"> - Defining conductors and insulators. - Giving examples of conductors and insulators. - Stating the uses of conductors and insulators. 	Chalk board charts text books.	
4	AND	The electric torch.	<ul style="list-style-type: none"> ♣ Learner draws and names the parts of a torch. ♣ Explains the uses of some parts. ♣ Explains why a torch fails to work 	<ul style="list-style-type: none"> ♣ Learner names the parts of a torch and its uses. ♣ Outlines why a torch may fail to work. 	<ul style="list-style-type: none"> - The electric torch. - Parts of a torch. - Why a torch fails to work. 	<ul style="list-style-type: none"> - Drawing the parts of a torch. - Stating the uses of the parts of the torch. 	Chalk board charts text books.	-do-
5		Plugs and sockets	<ul style="list-style-type: none"> ♣ Learner draws and names the parts of a plug or socket. ♣ Explains the uses of red, blue or green wires. 	<ul style="list-style-type: none"> ♣ Learner drawing and naming the parts of a plug. ♣ Explaining the uses of different colour of wires in a plug. 	<ul style="list-style-type: none"> - The plug. - The socket. - The uses of some coloured wires. 	<ul style="list-style-type: none"> - Drawing the plug. - Stating the uses of some coloured wires. 		
6 & 7	ENERGY	Production of electricity in Uganda.	<ul style="list-style-type: none"> ♣ Learner explains the appliances which produce electricity. ♣ Discusses how the electricity is produced and measured. 	<ul style="list-style-type: none"> ♣ The learner explains the electrical appliances commonly used. ♣ States how electricity is measured. 	<ul style="list-style-type: none"> - The motors. - The generators. - The dynamos - The transformers. 	<ul style="list-style-type: none"> - Stating energy changes in the mentioned appliances. 	-do-	Mk integrated Science Bk.7 Comprehe nsion Science

									BK 7
									Fountain integrated Sci. BK 7
8 & 9	MATTER AND ENERGY	Magnetism	<ul style="list-style-type: none"> ♣ The learner defines the term magnetism. ♣ Explains magnetic and non magnetic substances. ♣ Gives the examples of magnetic and non magnetic substances. ♣ Defines and gives examples of alloys. 	<p>The learner explains the meaning of;</p> <ul style="list-style-type: none"> ♣ Magnetism ♣ Magnet ♣ Magnet materials. ♣ Non – magnetic materials outlines the examples of magnetic and non-magnetic substances. 	<ul style="list-style-type: none"> - Magnetism. - Magnet. - Magnetic substances and their examples. - Non-magnetic substances and their examples. 	<ul style="list-style-type: none"> - Defining the terms i.e. magnetism magnet - Magnetic materials - Non-magnetic materials. - Giving the examples of magnetic and non magnetic substances. 	Chalk board charts text books.	-do-	
1 & 2		Properties of Magnets and Tyeps of magnets (Natural & artificial)	<p>The learner outlines the properties of magnets</p> <ul style="list-style-type: none"> ♣ Illustrates the properties of magnets. ♣ Gives examples of a natural and artificial magnets. 	<p>The learner states the properties of magnets.</p> <ul style="list-style-type: none"> ♣ Draws the properties of magnets. ♣ Explains how the earth works as a natural magnet. 	<ul style="list-style-type: none"> - Properties of magnets. - Types of magnets (natural and artificial) 	<ul style="list-style-type: none"> - Illustration the properties of magnets - Giving examples of natural and artificial magnets. 	Text bks Chalk board Chart		

3		Permanent and temporary magnets.	<p>The learner defines permanent and temporary magnets.</p> <ul style="list-style-type: none"> ♣ Gives examples of temporary and permanent magnets. ♣ Illustrates and defines magnetic lines and force. 	<p>The learner correctly explains the meaning of permanent and temporary magnets.</p> <ul style="list-style-type: none"> ♣ States examples of permanent and temporary magnets. ♣ Draws the lines of magnetic force. 	<ul style="list-style-type: none"> - Permanent and temporary magnets. - The magnetic field. 	<ul style="list-style-type: none"> - Defining the terms. - Giving examples of permanent and temporary magnets. - Drawing the magnetic lines of force. 		-do-
4 & 5		Magnetization and demagnetization.	<p>The learner defines magnetization and demagnetization.</p> <ul style="list-style-type: none"> ♣ Makes induced and electromagnet. ♣ Outlines how to demagnetize magnets. ♣ States uses of magnet. 	<p>The learner demonstrates how to make an induced and electro magnet.</p> <ul style="list-style-type: none"> ♣ Describes how to demagnetize magnets. ♣ Discusses the uses of magnets and devices that use magnets. 	<ul style="list-style-type: none"> - Magnetization - Stroking - Induction. - Electrical. - Demagnetization. - Uses of magnets. - Devices that use magnets. 	<ul style="list-style-type: none"> - Defining magnetization. - Illustrating methods of magnetization. - Stating the uses of magnets. - Giving examples of devices that use magnets. 	Cells Wires Chalk board Text bks	Mk integrated Science Bk.7 Comprehension Science BK 7 Fountain integrated Sci. BK 7
6	ENVIRONMENT	Energy Resources	<p>The learner explains what the term environment means.</p> <ul style="list-style-type: none"> ♣ Outlines the components of environment. ♣ Defines energy resources. ♣ Gives the examples of energy resources. 	<p>The learner defines environment.</p> <ul style="list-style-type: none"> ♣ States the components that make up environment. ♣ Explains what energy resources are. ♣ Outlines examples of energy resources. 	<ul style="list-style-type: none"> - Environment and its components. - Energy resources. 	<ul style="list-style-type: none"> - Defining energy resources, environment etc. - Giving the examples of energy resources. 	Text bks Sketches.	

7		Types of energy resources. -renewable Non-renewable	The learner explains types of energy resources. ♣ Defines renewable and non-renewable resources.	The learner defines renewable and non-renewable resources.	Types of energy resources. - Renewable resources. - Non-renewable resources. - Soil as a resource	- Defining and giving examples of each type of resource. - Explaining why soil is taken as a resource.	Chalk board Sketches	
8	Environment	Rocks, Fossils and minerals	The learner gives examples of rocks and explains how rocks are formed. ♣ Defines the term fossil and gives examples of fossils.	The learner outlines how rocks are formed. ♣ States the importance of rocks. ♣ Defines fossils. ♣ Gives examples of fossils.	- Formation of rocks and their importance. - The fossils	- Explaining how rocks are formed. - Defining fossils and how they were formed.	Chalk board Sketches	-do-
9 & 1	Environment	The sun, water, plants, animals and minerals as energy resources.	The learner explains how the sun, water, plants, animals and minerals are important as energy resources. ♣ Defines the term fossil and gives examples of fossils.	The learner describes how the sun, water, plants, minerals and animals work as energy resource.	- The sun as an energy resource. - The animals as energy resource. - The plants as energy resource. - The water as an energy resource - The minerals as energy resource.	- Explaining the sun, water, plants, animals and minerals as energy resource	Chalk board Sketches	Mk integrated Science Bk.7 Comprehnion Science BK 7 Fountain integrated Sci. BK 7
2 & 3		Conservation and Biogas production.	The learner ♣ Defines conservation. ♣ Explains how different resources are conserved.	The learner defines the term conservation ♣ Explains how biogas is produced.	- Conservation. - How resources are conserved. - Biogas production.	- Defining conservation - Explaining how different resources are conserved. - Describing how biogas is produced.	Chalk board Sketches Text bks.	-do-

TERM II									
1 & 2	Matter and energy	Simple machines and friction. Friction	<p>The learner,</p> <ul style="list-style-type: none"> ♣ States the meaning of friction. ♣ Investigates effects of friction on matter. ♣ States the importance of friction. 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Listens to stories about effects of friction. ♣ Describes different ways of increasing or decreasing friction. 	<ul style="list-style-type: none"> - The meaning of friction. - Effects of friction on matter. - Importance of friction. - Ways of increasing on decreasing friction. 	<ul style="list-style-type: none"> - Carrying out experiments on effects of friction on matter. - Illustrating how to increase or decrease friction. 	<p>Chalk board</p> <p>Illustration</p>	<p>Mk integrated Science Bk.7</p> <p>Comprehension Science BK 7</p> <p>Fountain integrated Sci. BK 7</p>	
3		Simple machines	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Defines a simple machine. ♣ States advantages of simple machines. ♣ Describes how machines simplify work. ♣ Differentiates between simple and complex machines. 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Outlines different names of simple machines. ♣ Tells stories how machines simplify work. ♣ Groups simple and complex machines. 	<ul style="list-style-type: none"> - The meaning of simple machines. - The advantages of simple machines. - How machines simplify work. - Simple and complex machines. 	<ul style="list-style-type: none"> - Describing how machines do work. - Illustrating how machines simplify work. 	<p>Chalk board</p> <p>Illustrates.</p> <p>Sketches</p>	-do-	
4 & 5 6		Classes of levers	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Classifies the levers. ♣ Defines (a) First class levers. (b) 2nd class levers (c) 3rd class levers. ♣ Names and draws them. 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Draws and labels the levers. ♣ Makes models of some levers. 	<ul style="list-style-type: none"> - Class of levers. <ul style="list-style-type: none"> - 1st class - 2nd class - 3rd class - Examples of each class. - Advantages of levers. 	<ul style="list-style-type: none"> - Identifying different classes of levers. 	<p>Sketches</p> <p>Charts</p> <p>Chalk board</p> <p>Illustration</p>	-do-	

7		The Law of levers calculations on levers.	The learner, <ul style="list-style-type: none"> ♣ Defines the law of lever. ♣ Explains how calculations are done. 	The learner, <ul style="list-style-type: none"> ♣ Writes the formular used in calculating simple problems in levers. 	<ul style="list-style-type: none"> - The Law of Lever (moments) - Calculation on levers. (L.F x L.A) E.F x E.A) 	<ul style="list-style-type: none"> - Calculating simple problems. 	Chalk board Illustration	-do-
8 & 9	Matter and Energy	Calculation of work done	The learner, <ul style="list-style-type: none"> ♣ Explains how work done is calculated. ♣ Describes the terms used in relation to simple machines. 	The learner, <ul style="list-style-type: none"> ♣ Defines work done. ♣ States how work is calculated. ♣ Writes down words used in relation to simple machines. 	<ul style="list-style-type: none"> - Calculation of work done. (work done = Force x Distance) - Terms used in simple machines. - Mechanical Adv. - Velocity Ratio - Efficiency - Load, Effort and Pivot 	<ul style="list-style-type: none"> - Calculating simple problems. 	Chalk board Illustration	Mk integrated Science Bk.7 Comprehension Science BK 7 Fountain integrated Sci. BK 7
1		Inclined planes.	The learner, <ul style="list-style-type: none"> ♣ Defines inclined plane. ♣ Mentions examples of inclined planes and advantages of using inclined planes. ♣ States how inclined planes are useful in daily life. 	The learner, <ul style="list-style-type: none"> ♣ Writes other words used to mean inclined planes. ♣ Makes models of an inclined plane. ♣ Moves in the school to see places where inclined planes are found. 	<ul style="list-style-type: none"> - The slope. - Examples of inclined planes. - Advantages of using inclined planes. - Application of inclined planes. 	<ul style="list-style-type: none"> - Calculating simple problems. 	Chalk board Illustration Sketches. Chart	-do-
2		Wedges	The learner, <ul style="list-style-type: none"> ♣ Defines a wedge. ♣ Mentions examples of wedges ♣ Outlines the advantages of wedges. 	The learner, <ul style="list-style-type: none"> ♣ Writes correctly the examples of wedges. ♣ Describes how some wedges are used. 	<ul style="list-style-type: none"> - The meaning of wedges. - Examples of wedges. - Advantages of wedges. - Application of wedges. 	<ul style="list-style-type: none"> - Making models of a wedge using wood. - Splitting wood using axes. 	-do-	-do-

3		Screws	The learner, <ul style="list-style-type: none"> ♣ Defines screws. ♣ States examples of screws. ♣ Mentions advantages of screws. ♣ Explains how screws are applicable in our daily life. 	The learner, <ul style="list-style-type: none"> ♣ Mentions where screws can be found or used. 	<ul style="list-style-type: none"> - The Meaning of wedges. - Examples of screws. - Advantages of using screws. - How screws are useful in daily life. 	<ul style="list-style-type: none"> - Drawing the diagrams of screws, vices and jerks. 	Screws Screw driver Chalk board Illustration Chart	-do-
4		Wheel and Axle	The learner, <ul style="list-style-type: none"> ♣ Defines wheel and axle. ♣ Gives examples of machines which in the principle of wheel and axle. ♣ Mentions how they are useful. 	The learner, <ul style="list-style-type: none"> ♣ Draws the structure of wheel and axle. ♣ Writes down machines which have wheel and axle 	<ul style="list-style-type: none"> - The meaning of wheel and axle. - Machines which work under the principle of wheel and axle. - Application of wheel and axle. 	<ul style="list-style-type: none"> - Drawing wheels and axle 	Wrist watches Bicycles Eggbeater	-do-
5		Pulleys.	The learner, <ul style="list-style-type: none"> ♣ Defines the term pulley. ♣ Mentions types of pulleys. ♣ Describes characteristics and mechanical Advantage of each pulley. ♣ States the advantages of using pulleys. Mentions how pulleys are applicable.	The learner, <ul style="list-style-type: none"> ♣ Draws the single fixed and movable pulleys. Makes models of pulleys.	<ul style="list-style-type: none"> - What is a pulley? - Types of pulleys. - The M.A of each pulley. - Advantage of using each type of pulley. - Application of pulleys. 	<ul style="list-style-type: none"> - Drawing pulleys. - Making models of single fixed on. - Single movable pulley. 	Chalk board Illustration Chart Old bicycle wheel.	Mk integrated Science Bk.7 Comprehension Science BK 7 Fountain integrated Sci. BK 7
6 & 7		Excretory system The skin	The learner, <ul style="list-style-type: none"> ♣ Defines excretion ♣ Lists the excretory organs. ♣ Explains the skin as an excretory organ. ♣ Draws the structure of the skin. 	The learner, <ul style="list-style-type: none"> ♣ Narrates how sweat and other fluids are removed from the body. ♣ Draws and names the parts of the skin 	<ul style="list-style-type: none"> - Excretion; The meaning of (i) excretion (ii) excretory organ. - Examples of excretory organs. - The structure of the skin (cross section) 	<ul style="list-style-type: none"> - Naming excretory organs. - Drawing the cross section of the skin. 	-do-	-do- Introduction to Biology Biology for Tropical schools.

		Human Body				- Naming of parts.			
8 & 9	Human Body	Functions of the skin Diseases and disorders of the skin How to keep the skin healthy.	The learner, <ul style="list-style-type: none"> ♣ Explains the functions of the skin ♣ Describes the diseases and disorders of the skin ♣ Discusses how to promote the proper working of the skin. 	The learner, <ul style="list-style-type: none"> ♣ Reads words, sentences and stories about the human skin. 	<ul style="list-style-type: none"> - Functions of the skin. - Diseases and disorders of the skin. - Health habit for the skin. 	<ul style="list-style-type: none"> - Discussing functions of the skin. - Naming diseases and disorders of the skin. - Explaining ways of keeping the skin healthy. 	Chalk board Illustration.	Introduction to Biology Biology for Tropical schools. Supplementary Science Stds 5 – 8	
1 & 2	Human Body	The Kidneys The structure of the kidneys The functions of the kidneys. Diseases and disorders. Health habits	The learner, <ul style="list-style-type: none"> ♣ Draws, names and describes the position of the kidneys. ♣ Write the diseases and disorders of kidneys. - States health habits. 	The learner, <ul style="list-style-type: none"> ♣ Draws and labels the kidneys. - Write brief notes on kidneys. 	<ul style="list-style-type: none"> - The position and structure of kidneys. - Functions of the kidneys. - Diseases and disorders of kidneys. - Kidney health habits. 	<ul style="list-style-type: none"> - Drawing the kidneys. - Writing guided notes on functions, diseases and disorders. 	Chart Chalk board Illustration.	Introduction to Biology Biology for Tropical schools. Supplementary Science Stds 5 – 8	
3 & 4		The lungs	The learner, <ul style="list-style-type: none"> ♣ Explains why lungs are regarded as excretory and respiratory organs. ♣ States the position of the lungs. - Draws the structure of the 	The learner, <ul style="list-style-type: none"> ♣ Draws and labels the lungs. - States reasons why lungs are regarded as excretory organs. 	<ul style="list-style-type: none"> - The structure and position of the lungs. - The lungs as excretory organs. 	<ul style="list-style-type: none"> - Drawing and labeling the lungs. 	Chart Chalk board Illustration	Introduction to Biology. Biology for Tropical schools.	

			lungs.						
5 & 6		Functions of parts of the lungs. Adaptation of lungs. Diseases and disorders of lungs Good health habits for the lungs	The learner, <ul style="list-style-type: none"> ♣ Discusses functions, adaptations, Diseases and disorders. - Describes the good health habits for lungs. 	The learner, <ul style="list-style-type: none"> - Writes guided notes on functions, Adaptations, diseases and disorders of lungs together with good health habits. 	<ul style="list-style-type: none"> - Functions of some parts of the lungs. - Adaptations of lungs. - Diseases and disorders of the lungs. - Good health habits for lungs. 	- Writing notes.	-do-	-do-	
7		The human liver.	The learner, <ul style="list-style-type: none"> ♣ Explains the position, the structure and function of the liver - Discusses the diseases of the liver and how to keep it healthy. 	The learner, <ul style="list-style-type: none"> - Reads words sentences and stories about the liver. 	<ul style="list-style-type: none"> - The position and structure of the liver. - The Functions of the liver. - The Diseases of the liver. - Health habits good for the liver. 	- Writing guided notes. - Answering guided questions.	Chalk board Illustration	Introduction to Biology. Biology for Tropical Schools. Comprehension of ScienceBk 7	
8	FORMS OF ENERGY	Light	The learner; <ul style="list-style-type: none"> - Defines light - Names the sources of light - States the importance of light. 	The learner; <ul style="list-style-type: none"> - Explains the terms; Light and sources of light - Gives the importance of light 	<ul style="list-style-type: none"> - Light - Sources of light - Importance of light 	- Defining light - Explaining sources of light and importance of light	Electric bulb, candles	Fountain Intergrated science book 7	
9		How light travels	The learner, <ul style="list-style-type: none"> - Explains and illustrates how light travels 	The learner; <ul style="list-style-type: none"> - Illustrates how light travels 	<ul style="list-style-type: none"> - How light travels (Light transmission) 	- Illustrating how light travels	Tubes , cards, papers , torches, candles	-do-	
1 & 2		Beams of light , Effects of light on different materials	The learner; <ul style="list-style-type: none"> - Defines a beam of light - Names the types of beams - Illustrates the beam stated 	The learner; <ul style="list-style-type: none"> - Explains what a beam is - Describes and illustrates the types of beams 	<ul style="list-style-type: none"> - The beam - Type of beams - The transparent, Translucent and Opaque 	- Illustrating the types of beams and effects of beams on different materials	Torches, candles sketches text books polythene bags	-do-	

		(Opaque, Transparent and Translucent)			objects			
	3 & 4	Shadow	<p>The learner;</p> <ul style="list-style-type: none"> - Defines a shadow - Explain how shadows are formed and characteristic of shadows. - Defines eclipses and explains how they are formed 	<p>The learner;</p> <ul style="list-style-type: none"> - Defines a shadow - Describes how shadow are formed - States the characteristics of shadows - Explains what eclipses and how they are formed 	<ul style="list-style-type: none"> - The shadows - How shadows are formed - Characteristics of shadows - The eclipses - How the eclipses are formed 	<ul style="list-style-type: none"> - Experimenting formation of shadows 	Charts, torches, chalkboard illustrations	Comprehensive science P.7
	5 & 6	Reflection, The laws of reflection, Calculations on reflection	<p>The learners;</p> <ul style="list-style-type: none"> - Defines reflection - States types of reflection - Explains the effect of light on different objects 	<p>The learner;</p> <ul style="list-style-type: none"> - Defines reflection and gives types of reflection - States the laws of reflection and effect of light on different materials 	<ul style="list-style-type: none"> - Reflection - The laws of reflection - Importance of reflection - Calculation on reflection 	<ul style="list-style-type: none"> - Experimenting effects of light on a plane mirror 	Plane mirror A torch	- do-
	7 & 8	Images characteristics of image formed by plane mirrors. Illustrations on the characteristics of image on a plane mirror	<ul style="list-style-type: none"> - The learner - Defines the term image - States the characteristics of images formed by plane mirrors. - Illustrates the images and objects 	<p>The learner</p> <ul style="list-style-type: none"> - States the characteristics of image formed by plane mirrors. - Illustrates the images formed on plane 	<ul style="list-style-type: none"> - Characteristics of image formed by plane mirrors - Illustration of objects on plane mirrors - Uses of plane mirrors - 	<ul style="list-style-type: none"> - Explaining the characteristics of image formed by plane mirrors - Image appear on plane mirrors 	Plane mirrors Chalk board Illustration Charts	MK integrated Sci Bk 7 Comprehensive Sci BK 7
	9	The curved mirrors	<p>The learner</p> <ul style="list-style-type: none"> - Defines curved mirrors - Mentions types of curved 	<p>The learner,</p> <ul style="list-style-type: none"> - Explains what curved mirrors are. 	<ul style="list-style-type: none"> - Curved mirrors - Types of curved mirrors 	<ul style="list-style-type: none"> - Explaining about curved mirrors - Types 	Driving mirrors	MK intergrated Sci BK 7

		(convex and concave)	mirrors. Put lines the common uses of curved mirrors	- Discusses types of curved mirrors and their common uses	- Common uses of curved mirrors			Comprehensive Sci BK7 Fountain integrated Sci BK 7
	1 & 2	Refraction of light	The learner - Defines refraction - Explains the effects of refraction and illustrates refraction. - Out lines the common uses of curved mirrors	The learners - Explains what refraction is. - Describes the effects of refraction - Illustrates refraction	- Refraction - Effects of refraction - Experiment on refraction	- Defining refraction - Discussing effects of refraction in daily life - Illustrating refraction of light	Chalk board Illustration Chart	-d-
	3	Lenses	The learner, ♣ Defines a lens. ♣ Gives types of lenses and their lenses. Mention uses of lenses.	The learner, ♣ Explains what a lenses. States the types of lenses and their uses.	- The lenses. - Types of lenses. - Uses of lenses	- Discussing types of lenses and their uses.	Lenses Charts Chalk board Illustration	-do-
	4	Optical instruments.	The learner, ♣ Mentions examples of optical instruments ♣ States uses of some optical instruments.	The learner, ♣ Gives the examples of optical instruments. ♣ Describes the uses of optical instruments.	- Optical instruments. - Examples of optical instruments. - Uses of optical instruments.	- Discussing about the optical instruments, their examples and uses.	Chalk board Illustration. Chart Sketches.	-do-
	5	Dispersion of light (Spectrum)	The learner, ♣ Defines and illustrates the light spectrum (dispersion)	The learner, ♣ Correctly explains new dispersion of light occurs.	- Dispersion of light - The Natural spectrum (rainbow) - Artificial spectrum (triangular prism)	- Defining and illustrating the light spectrum.	-do-	-do-
	6	Colours of objects in white light.	The learner, ♣ States effects of coloured light on different objects. ♣ Explains how primary and secondary colours are formed. ♣ Mentions examples of primary	The learner, ♣ Writes the effects of light on different objects. ♣ Tells the story about the rainbow.	- Why objects appear coloured. - Primary and secondary colours.	- Discussing reasons why objects appear coloured. - Defining and giving examples of primary and secondary	Motor Dry cells Mirrors Chalkboard Illustration	Mk integrated Science Bk.7 Comprehension Science

				and secondary colours.		- The coloured wheel.	colours.		BK 7 Fountain integrated Sci. BK 7
	7 & 8	Forms of Energy	Colours of objects in white light.	The learner, ♣ Outlines characteristics of images formed by pinhole camera ♣ Describes how a pinhole camera works.	The learner, ♣ Makes and demonstrates how a pinhole camera works.	- The pinhole camera. - How it works.	- Observing and reciting the characteristics of images formed by pin hole camera.	Tins Carbon papers Cooking oil or Vaseline.	-do-
	9 & 1		Lens camera and Pin hole camera	The learner, ♣ Draws the components of a lens camera. ♣ States the uses of each component. ♣ Describes how it works.	The learner, ♣ Describes how a photographic camera works.	- The photographic camera. - The Functional parts of the camera (5)	- Drawing the parts of a camera. - Mentioning uses of the five functional parts of the camera.	Old camera Chart	-do-
	2 & 3		The human eye.	The learner, ♣ Observes his/her eyes in a mirror. ♣ Draws the front view of the eye after observation. ♣ Describes how the eye works.	The learner, ♣ Draws and labels the human eye.	- The human eye. - Internal and external parts.	- Drawing and naming parts of the eye.	Chart Chalk board Illustration.	-do-
	4 & 5		The eye defects. Correction of eye defects. Diseases and disorders of the eye.	The learner, ♣ Describes different eye defects and their corrections. ♣ Practices the correct eye care. ♣ Makes the model of the eye.	The learner, ♣ Outlines the eye defects and their correction. ♣ Writes down the eye diseases, disorders and their prevention / control.	- The eye defects - Eye defect correction. - Diseases and disorders of the eye. - Prevention and control of eye diseases and disorders.	- Describing different eye defects. - Making the model of the eye. - Discussing prevention and control of eye diseases.	Chart Chalk board Illustration.	-do-

TERM III

1 & 2	Environ ment	Interdependence of things in the environment.	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Outlines the components of environment (Plants, animals, water bodies, soil and air) ♣ Defines interdependence. ♣ States how plants and animals depend on each other. 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Names components. ♣ Reads words, sentences and stories about the components. 	<ul style="list-style-type: none"> - Components of environment - Plants - Animals - Water bodies - Soil - Air. - Meaning of interdependence. - How things depend on each other 	<ul style="list-style-type: none"> - Describing the components of the environment and how they benefit from each other. 	-do-	-do-
3 & 4	Environ ment	Interdependence of living things on non-living things. Animals depend on non-living things (air, water, soil) Plants depend on non-living things (air, water, soil). Non-living things benefit from living things.	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Describes how the components of the environment benefit from each other. ♣ Describes Agro-forestry ♣ Practices proper methods of harvesting wood in Agro-forestry 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Acts a dialogue about the components of the environment and on agro forestry. 	<ul style="list-style-type: none"> - Interdependence of living things on non-living things 	<ul style="list-style-type: none"> - Describing how the components of the environment benefit from each other. 	<p>Chalk board</p> <p>Illustration</p>	<p>Introduction to Biology.</p> <p>Biology for Tropical Schools.</p>

5 & 6	The community, population and family life.	Population and Health. Community Health and social problems.	The learner, <ul style="list-style-type: none"> ♣ Names types of common sicknesses in a home and community. ♣ Describes causes of common sicknesses in a home and community. 	The learner, <ul style="list-style-type: none"> ♣ Names common sicknesses in a home and their causes. ♣ Reads words, sentences and stories on how to control the sicknesses in a home and community. 	<ul style="list-style-type: none"> - Community health and social problems. - Types of common sicknesses in a home and community. Community health and social problems among young people. - Controlling common sicknesses in a home and community 	<ul style="list-style-type: none"> - Naming types of common sicknesses in a home and community. - Describing causes of common sicknesses in a home and community. - Demonstrating activities to address health concerns among young people 	-do-	Comprehension Science BK 7
7 & 8	The community, population and family life.	Anti-social behaviour.	The learner, <ul style="list-style-type: none"> ♣ Defines anti-social behavior. ♣ States causes and effects of antisocial behavior. ♣ Explains how such activities can be prevented. 	The learner, <ul style="list-style-type: none"> ♣ Role plays doing activities to address health concerns. 	<ul style="list-style-type: none"> - Anti-social behavior - Definition. - Causes - Effects - Examples - Prevention of anti-social behavior 	<ul style="list-style-type: none"> - Demonstration of activities to address health concerns among young people. 	Chalk board. Illustration	MK Integrated Science BK 7 Comprehension Science BK 7
9	on and family life.	Juvenile Delinquency, sexual deviations	The learner, <ul style="list-style-type: none"> ♣ Defines sexual deviation ♣ States examples of sexual deviations ♣ Discusses dangers of anti-social behaviour and sexual deviation. ♣ Describes ways of avoiding sexual deviations. 	The learner, <ul style="list-style-type: none"> ♣ Recites a poem on ways of avoiding delinquency. 	<ul style="list-style-type: none"> Sexual deviation - Bestiality - Homosexuality - Masturbation - Oral sex - Lesbianism - Incest 	<ul style="list-style-type: none"> - Demonstrating activities to address health concerns among young people 	-do-	Comprehension Science BK 7

1 & 2		Activities to address health concern.	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Lists activities to address health concern ♣ Demonstrates some of the activities to address health concerns ♣ Collects information on human population and health in a home and community.. 	<p>The learner,</p> <ul style="list-style-type: none"> ♣ Role plays doing activities to address health concerns and data collection ♣ Writes information/data and health and social problems in a home and community 	<ul style="list-style-type: none"> - Health surveys - Health education - Collecting information/data on human population - Demography on housing information, available health services - Activities of health clubs 	<ul style="list-style-type: none"> - Demonstrating activities to address health concerns among young people - Collecting information/ data on human population and health on homes and the community.. 	Text books	<p>MK Integrated Science BK 7</p> <p>Comprehension Science BK 7</p>
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