

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, ♣ Draws and names the parts. ♣ Defines the skeleton ♣ Explains types and importance of the skeleton.	The learner, ♣ Writes words connected to the skeleton. ♣ Names different parts of the skeleton.	- The structure of the human skeleton. - Types of skeletons. - Importance of skeleton.	- Drawing and naming the parts of the skeleton.	Chart Chalk board Illustration Text bks.	-do-
	3		Names of different bones.	The learner, ♣ Names the different bones in the body.	The learner, ♣ Spells the names of different bones in the body.	- The Names of different bones. - Long bones - Short bones - Irregular bones - Flat bones - Examples of; - Long bones - Short bones - Irregular bones - Flat bones	- Naming the bones - Spelling the words.	Chart Chalk board Illustration Text bks.	-do-
	4	Human Body	Joints	The learner, ♣ Lists types of joints. ♣ Gives examples of each type of joints. ♣ Describes uses of joints.	The learner, ♣ Writes down the name of joints.	- What are joints - Types of joints. - Examples of each type of joints. - Importance of joints.	- 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, ♣ Tells what muscles are. ♣ States the type of muscles.	The learner, ♣ Describes how muscles work.	- The meaning of muscles. - Type of	- Defining the term muscles. - Stating the type of	Chalk board. Illustration.	

		Human Body		Mentions the importance of muscles.		muscles. - Examples of each type. - Importance of muscles.	muscles. - Outlining importance of muscles.		-do-
	6 & 7		Diseases and disorders of the skeletal system. Prevention of muscular and skeletal diseases.	The learner, ♣ Identifies the disorders and diseases of the system. ♣ Explains the preventive measures of the above diseases.	The learner, ♣ Spells the words related to system. ♣ Outlines the ways of preventing the diseases of the system.	- Diseases and disorders of the system. - Prevention of Muscular and skeletal system.	- 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.	The learner, ♣ Defines the posture. ♣ Illustrates and demonstrates the correct body posture. ♣ Describes good health habits for the system.	The learner, ♣ Writes guided notes on good health habits.	- The meaning of body posture. - Good and bad body posture. - Importance of good body posture. - How to keep the healthy skeletal system.	- Writing guided notes on good health habits.	Chalk board Illustration Chart Text bks	-do-
	1 & 2		ELECTRICITY (Types of electricity)	♣ The learner i) defines electricity ii) identifies sources and types of electricity iii) experiments with static electricity	♣ The learner: i) Reads words and sentences on electricity ii) Write words, sentences and short stories about electricity	i) What electricity is. ii) Types of electricity - Current electricity - Static electricity iii) Forms of electricity	- - Generating static electricity	Dry cells, combs, torches	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.	- Sources of direct and current electricity - Dry cell - Sources of alternating current electricity (AC) - Hydro electricity - Thermal electricity - Solar electricity - Geo-thermal - Nuclear electricity	- Assembling an electric circuit	- Dry cells - Conducting wires - bulbs	- do-
5 & 6		An electric circuit and symbols used.	♣ 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.	♣ 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.	- 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.	- 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 Comprehension Science BK 7 Fountain integrated Sci. BK 7
7		Energy changes in a circuit	♣ Learner describes energy changes in a circuit. ♣ Names the forms of energy in a dry cell and electric bulb.	♣ Learner explains energy changes. ♣ Names the forms of energy in dry cells and electric bulb	- Energy changes in a circuit.	- Describing energy changes in a circuit. - Naming forms of energy in a bulb	-do-	-do-

8	MATTER AND ENERGY	Wet cells and dry cells.	♣ Learner names the primary and secondary cells ♣ Draw the wet cell. ♣ Correctly describe the terms like polarization, local action and electrolytes.	♣ Learner describes the wet cells. ♣ Discusses the terms electrolyte, local action and polarization. ♣ Define electrolyte and give examples.	- Secondary and primary cells. - Electricity, electrodes, polarization and local action.	- Describing how dry and wet cells work. - Defining electrodes, electrolytes, polarization and local action.	Chart chalk board illustration. Text books.	-do-
9		Parts of a dry cells and their uses.	♣ 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)	♣ Learner names the parts of a dry cell. ♣ Explains the use of the parts. ♣ Outlines the parts found in the dry cell.	- 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.	- Showing the parts of a dry cell. - Outlining the uses of the parts of a dry cell. - Defining voltage. - Calculating voltage	-do-	Mk integrated Science Bk.7 Comprehension Science BK 7 Fountain integrated Sci. BK 7
1		The bulb and its parts.	♣ 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.	♣ 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.	- 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.	- Drawing the parts of a bulb. - Explaining energy changes. - Outlining reasons why the bulb fails to produce light when the circuit is complete.	Chart chalk board Text books	-do-

	2	MATTER	A short circuit	♣ Learner explains what a short circuit is and how it is caused and prevented.	♣ Learner discusses the meaning of a short circuit. ♣ Explains the causes and prevention of short circuits.	- The short circuit. - The causes. - Prevention.	- 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.	♣ Learner 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.	♣ Learner gives the meaning and examples of conductors and insulators. ♣ States the uses of conductors and insulators.	- The conductors and insulators. - Examples of conductors and insulators. - The uses of conductors and insulators.	- 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.	♣ Learner draws and names the parts of a torch. ♣ Explains the uses of some parts. ♣ Explains why a torch fails to work	♣ Learner names the parts of a torch and its uses. ♣ Outlines why a torch may fail to work.	- The electric torch. - Parts of a torch. - Why a torch fails to work.	- 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	♣ Learner draws and names the parts of a plug or socket. ♣ Explains the uses of red, blue or green wires.	♣ Learner drawing and naming the parts of a plug. ♣ Explaining the uses of different colour of wires in a plug.	- The plug. - The socket. - The uses of some coloured wires.	- Drawing the plug. - Stating the uses of some coloured wires.		
	6 & 7	ENERGY	Production of electricity in Uganda.	♣ Learner explains the appliances which produce electricity. ♣ Discusses how the electricity is produced and measured.	♣ The learner explains the electrical appliances commonly used. ♣ States how electricity is measured.	- The motors. - The generators. - The dynamos - The transformers.	- Stating energy changes in the mentioned appliances.	-do-	Mk integrated Science Bk.7 Comprehension Science

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									Fountain integrated Sci. BK 7
	8 & 9	MATTER AND ENERGY	Magnetism	♣ 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.	The learner explains the meaning of; ♣ Magnetism ♣ Magnet ♣ Magnet materials. ♣ Non – magnetic materials outlines the examples of magnetic and non-magnetic substances.	- Magnetism. - Magnet. - Magnetic substances and their examples. - Non-magnetic substances and their examples.	- 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)	The learner outlines the properties of magnets ♣ Illustrates the properties of magnets. ♣ Gives examples of a natural and artificial magnets.	The learner states the properties of magnets. ♣ Draws the properties of magnets. ♣ Explains how the earth works as a natural magnet.	- Properties of magnets. - Types of magnets (natural and artificial)	- Illustration the properties of magnets - Giving examples of natural and artificial magnets.	Text bks Chalk board Chart	

	3		Permanent and temporary magnets.	The learner defines permanent and temporary magnets. ♣ Gives examples of temporary and permanent magnets. ♣ Illustrates and defines magnetic lines and force.	The learner correctly explains the meaning of permanent and temporary magnets. ♣ States examples of permanent and temporary magnets. ♣ Draws the lines of magnetic force.	- Permanent and temporary magnets. - The magnetic field.	- Defining the terms. - Giving examples of permanent and temporary magnets. - Drawing the magnetic lines of force.		-do-
	4 & 5		Magnetization and demagnetization.	The learner defines magnetization and demagnetization. ♣ Makes induced and electromagnet. ♣ Outlines how to demagnetize magnets. ♣ States uses of magnet.	The learner demonstrates how to make an induced and electro magnet. ♣ Describes how to demagnetize magnets. ♣ Discusses the uses of magnets and devices that use magnets.	- Magnetization - Stroking - Induction. - Electrical. - Demagnetization. - Uses of magnets. - Devices that use magnets.	- 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	The learner explains what the term environment means. ♣ Outlines the components of environment. ♣ Defines energy resources. ♣ Gives the examples of energy resources.	The learner defines environment. ♣ States the components that make up environment. ♣ Explains what energy resources are. ♣ Outlines examples of energy resources.	- Environment and its components. - Energy resources.	- 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 Comprehension 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	The learner, - States the meaning of friction. - Investigates effects of friction on matter. - States the importance of friction.	The learner, - Listens to stories about effects of friction. - Describes different ways of increasing or decreasing friction.	- The meaning of friction. - Effects of friction on matter. - Importance of friction. - Ways of increasing on decreasing friction.	- Carrying out experiments on effects of friction on matter. - Illustrating how to increase or decrease friction.	Chalk board Illustration	Mk integrated Science Bk.7 Comprehension Science BK 7 Fountain integrated Sci. BK 7
	3		Simple machines	The learner, - Defines a simple machine. - States advantages of simple machines. - Describes how machines simplify work. - Differentiates between simple and complex machines.	The learner, - Outlines different names of simple machines. - Tells stories how machines simplify work. - Groups simple and complex machines.	- The meaning of simple machines. - The advantages of simple machines. - How machines simplify work. - Simple and complex machines.	- Describing how machines do work. - Illustrating how machines simplify work.	Chalk board Illustrates. Sketches	-do-
	4 & 5 6		Classes of levers	The learner, - Classifies the levers. - Defines (a) First class levers. (b) 2nd class levers (c) 3rd class levers. - Names and draws them.	The learner, - Draws and labels the levers. - Makes models of some levers.	- Class of levers. 1st class 2nd class 3rd class - Examples of each class. - Advantages of levers.	Identifying different classes of levers.	Sketches Charts Chalk board Illustration	-do-

	7		The Law of levers calculations on levers.	The learner, ♣ Defines the law of lever. ♣ Explains how calculations are done.	The learner, ♣ Writes the formula used in calculating simple problems in levers.	- The Law of Lever (moments) - Calculation on levers. (L.F x L.A) E.F x E.A)	- Calculating simple problems.	Chalk board Illustration	-do-
	8 & 9	Matter and Energy	Calculation of work done	The learner, ♣ Explains how work done is calculated. ♣ Describes the terms used in relation to simple machines.	The learner, ♣ Defines work done. ♣ States how work is calculated. ♣ Writes down words used in relation to simple machines.	- Calculation of work done. (work done = Force x Distance) - Terms used in simple machines. - Mechanical Adv. - Velocity Ratio - Efficiency - Load, Effort and Pivot	- 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, ♣ 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, ♣ 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.	- The slope. - Examples of inclined planes. - Advantages of using inclined planes. - Application of inclined planes.	- Calculating simple problems.	Chalk board Illustration Sketches. Chart	-do-
	2		Wedges	The learner, ♣ Defines a wedge. ♣ Mentions examples of wedges ♣ Outlines the advantages of wedges.	The learner, ♣ Writes correctly the examples of wedges. ♣ Describes how some wedges are used.	- The meaning of wedges. - Examples of wedges. - Advantages of wedges. - Application of wedges.	- Making models of a wedge using wood. - Splitting wood using axes.	-do-	-do-

3		Screws	The learner, ♣ Defines screws. ♣ States examples of screws. ♣ Mentions advantages of screws. ♣ Explains how screws are applicable in our daily life.	The learner, ♣ Mentions where screws can be found or used.	- The Meaning of wedges. - Examples of screws. - Advantages of using screws. - How screws are useful in daily life.	- Drawing the diagrams of screws, vices and jerks.	Screws Screw driver Chalk board Illustration Chart	-do-
4		Wheel and Axle	The learner, ♣ Defines wheel and axle. ♣ Gives examples of machines which in the principle of wheel and axle. ♣ Mentions how they are useful.	The learner, ♣ Draws the structure of wheel and axle. ♣ Writes down machines which have wheel and axle	- The meaning of wheel and axle. - Machines which work under the principle of wheel and axle. - Application of wheel and axle.	- Drawing wheels and axle	Wrist watches Bicycles Eggbeater	-do-
5		Pulleys.	The learner, ♣ 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, ♣ Draws the single fixed and movable pulleys. Makes models of pulleys.	- What is a pulley? - Types of pulleys. - The M.A of each pulley. - Advantage of using each type of pulley. - Application of pulleys.	- 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, ♣ Defines excretion ♣ Lists the excretory organs. ♣ Explains the skin as an excretory organ. ♣ Draws the structure of the skin.	The learner, ♣ Narrates how sweat and other fluids are removed from the body. ♣ Draws and names the parts of the skin	- Excretion; The meaning of (i) excretion (ii) excretory organ. - Examples of excretory organs. - The structure of the skin (cross section)	- 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, - 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, Reads words, sentences and stories about the human skin.	- Functions of the skin. - Diseases and disorders of the skin. - Health habit for the skin.	- 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, - Draws, names and describes the position of the kidneys. - Write the diseases and disorders of kidneys. - States health habits.	The learner, - Draws and labels the kidneys. - Write brief notes on kidneys.	- The position and structure of kidneys. - Functions of the kidneys. - Diseases and disorders of kidneys. - Kidney health habits.	- 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, - Explains why lungs are regarded as excretory and respiratory organs. - States the position of the lungs. - Draws the structure of the	The learner, - Draws and labels the lungs. - States reasons why lungs are regarded as excretory organs.	- The structure and position of the lungs. - The lungs as excretory organs.	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, ♣ Discusses functions, adaptations, Diseases and disorders. - Describes the good health habits for lungs.	The learner, - Writes guided notes on functions, Adaptations, diseases and disorders of lungs together with good health habits.	- 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, ♣ Explains the position, the structure and function of the liver - Discusses the diseases of the liver and how to keep it healthy.	The learner, - Reads words sentences and stories about the liver.	- 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; - Defines light - Names the sources of light - States the importance of light.	The learner; - Explains the terms; Light and sources of light - Gives the importance of light	- 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, - Explains and illustrates how light travels	The learner; - Illustrates how light travels	- 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; - Defines a beam of light - Names the types of beams - Illustrates the beam stated	The learner; - Explains what a beam is - Describes and illustrates the types of beams	- 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	The learner; - Defines a shadow - Explain how shadows are formed and characteristic of shadows. - Defines eclipses and explains how they are formed	The learner; - Defines a shadow - Describes how shadow are formed - States the characteristics of shadows - Explains what eclipses and how they are formed	- The shadows - How shadows are formed - Characteristics of shadows - The eclipses - How the eclipses are formed	- Experimenting formation of shadows	Charts, torches, chalkboard illustrations	Comprehensive science P.7
	5 & 6		Reflection, The laws of reflection, Calculations on reflection	The learners; - Defines reflection - States types of reflection - Explains the effect of light on different objects	The learner; - Defines reflection and gives types of reflection - States the laws of reflection and effect of light on different materials	- Reflection - The laws of reflection - Importance of reflection - Calculation on reflection	- 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	- The learner - Defines the term image - States the characteristics of images formed by plane mirrors. - Illustrates the images and objects	The learner - States the characteristics of image formed by plane mirrors. - Illustrates the images formed on plane	- Characteristics of image formed by plane mirrors - Illustration of objects on plane mirrors - Uses of plane mirrors -	- 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	The learner - Defines curved mirrors - Mentions types of curved	The learner, - Explains what curved mirrors are.	- Curved mirrors - Types of curved mirrors	- 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

		Forms of Energy		and secondary colours.		- The coloured wheel.	colours.		BK 7 Fountain integrated Sci. BK 7
	7 & 8		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.	The learner, ♣ Outlines the components of environment (Plants, animals, water bodies, soil and air) ♣ Defines interdependence. ♣ States how plants and animals depend on each other.	The learner, ♣ Names components. ♣ Reads words, sentences and stories about the components.	- Components of environment - Plants - Animals - Water bodies - Soil - Air. - Meaning of interdependence. - How things depend on each other	- 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.	The learner, ♣ Describes how the components of the environment benefit from each other. ♣ Describes Agro-forestry ♣ Practices proper methods of harvesting wood in Agro-forestry	The learner, ♣ Acts a dialogue about the components of the environment and on agro forestry.	- Interdependence of living things on non-living things	- Describing how the components of the environment benefit from each other.	Chalk board Illustration	Introduction to Biology. Biology for Tropical Schools.

5 & 6	The community, population and family life.	Population and Health. Community Health and social problems.	The learner, - Names types of common sicknesses in a home and community. - Describes causes of common sicknesses in a home and community.	The learner, - 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.	- 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	- 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, - Defines anti-social behavior. - States causes and effects of antisocial behavior. - Explains how such activities can be prevented.	The learner, Role plays doing activities to address health concerns.	- Anti-social behavior - Definition. - Causes - Effects - Examples - Prevention of anti-social behavior	Demonstration of activities to address health concerns among young people.	Chalk board. Illustration	MK Integrated Science BK 7 Comprehension Science BK 7
9	The community, population and family life.	Juvenile Delinquency, sexual deviations	The learner, - 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, Recites a poem on ways of avoiding delinquency.	Sexual deviation - Bestiality - Homosexuality - Masturbation - Oral sex - Lesbianism - Incest	Demonstrating activities to address health concerns among young people	-do-	Comprehension Science BK 7

	1 & 2		Activities to address health concern.	The learner, ♣ 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..	The learner, ♣ Role plays doing activities to address health concerns and data collection ♣ Writes information/data and health and social problems in a home and community	- Health surveys - Health education - Collecting information/data on human population - Demography on housing information, available health services - Activities of health clubs	- Demonstrating activities to address health concerns among young people - Collecting information/ data on human population and health on homes and the community..	Text books	MK Integrated Science BK 7 Comprehension Science BK 7
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