PRIMARY SEVEN SCHEME OF WORK FOR SCIENCE
TERM ONE

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 he 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	**Human Body**	**Muscles**	The learner, ♠ Tells what muscles are. ♠ States the type of muscles. Mentions the importance of muscles.	The learner, ♠ Describes how muscles work.	- The meaning of muscles. - Type of muscles. - Examples of each type. - Importance of muscles.	- Defining the term muscles. - Stating the type of muscles. - Outlining importance of muscles.	Chalk board. Illustration.	-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 electiricity - Solar electricity - Geo-thermal - Nuclear electricity	- Assembling an electric circuit	- Dry cells - Conductin g wires - bulbs	- do-
	5 &		**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.	- Definition of the circuit. - Parts of an electric circuit. - Uses of the components 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 Comprehe nsion

	6				♠ Draws an illustration about the flow of current. ♠ Draws the symbols as used in a circuit.	- The flow of current in a circuit. - The symbols of a circuit.			Science BK 7 Fountain integrated Sci. BK 7
	7	**MATTER AND ENERGY**	**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		**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 sues 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 sue 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 ad how to calculate voltage of bran 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.**	♠ Lerner draws and names the parts of an electric bulb. ♠ Explains energy …….in 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 AND**	**A short circuit**	♠ Learner explains what a short circuit is and how it is caused and prevented.	♠ Learner discusses the meaning of s 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.**	♠ 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.	♠ Learner gives the meaning and examples of conductors and insulators. ♠ States the sues 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		**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 sues of red, blue or green wires.	♠ Learner drawing and naming the parts of a plug.	- The plug. - The socket. - The uses of some coloured wires.	- Drawing the plug. - Stating the uses of some coloured wires.		

					♠ Explaining the sues of different colour of wires in a plug.				
	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 BK 7 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 resoruces. -renewable Non-renowable**	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 &		**The sun, watr, plants, animals and minerals as**	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.	- Explaining the sun, water, plants, animals and minerals as energy resource	Chalk board Sketches	Mk integrated Science Bk.7 Comprehension

	1	**Environment**	**energy resources.**			- The plants as energy resource. - The water as an energy resource - The minerals as energy resource.			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 - 2018									
	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.	The learner, ♠ Outlines different names of simple machines.	- The meaning of simple machines. - The advantages of	- Describing how machines do work. - Illustrating how machines simplify work.	Chalk board Illustrates. Sketches	

				♠ Differentiates between simple and complex machines.	♠ Tells stories how machines simplify work. ♠ Groups simple and complex machines.	simple machines. - How machines simplify work. - Simple and complex machines.			-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 formular 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** **Terms used in simple machines.**	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.	The learner, ♠ Writes other words used to mean inclined planes.	- The slope. - Examples of inclined planes.	- Calculating simple problems.	Chalk board Illustration Sketches. Chart	-do-

				♠ States how inclined planes are useful in daily life.	♠ Makes models of an inclined plane. ♠ Moves in the school to see places where inclined planes are found.	- Advantages of using inclined planes. - Application of inclined planes.			
	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.	- 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

						- Application of pulleys.			Fountain integrated Sci. BK 7
	6 & 7	**Human Body**	**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 of parts.	- Naming excretory organs. - Drawing the cross section of the skin.	-do-	-do- Introduction to Biology Biology for Tropical schools.
	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.**	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

			Diseases and disorders. **Health habits**						
	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 lungs.	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.
	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		**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	**FORMS OF ENERGY**	**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 (Opaque, Transparent and Translucent)**	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 objects	- Illustrating the types of beams and effects of beams on different materials	Torches, candles sketches text books polythene bags	-do-
	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	Comprehens ive science P.7
	5 & 6		**Reflection, The laws of reflecttion, 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 characteristi cs of image formed by plane mirrors. Illustrations on the**	- 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 Comprehens ive Sci BK 7

			characteristics of image on a plane mirror			-			
	9		**The curved mirrors (convex and concave)**	The learner - Defines curved mirrors - Mentions types of curved mirrors. Put lines the common uses of curved mirrors	The learner, - Explains what curved mirrors are. - Discusses types of curved mirrors and their common uses	- Curved mirrors - Types of curved mirrors - Common uses of curved mirrors	- Explaining about curved mirrors - Types	Driving mirrors	MK intergrated Sci BK 7 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	- Defining and illustrating the light spectrum.	-do-	-do-

						(triangular prism)			
	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 and secondary colours.	The learner, ♠ Writes the effects of light on different objects. ♠ Tells the story about the rainbow.	- Why objects appear coloured. - Primary and secondary colours. - The coloured wheel.	- Discussing reasons why objects appear coloured. - Defining and giving examples of primary and secondary colours.	Motor Dry cells Mirrors Chalkboard Illustration	Mk integrated Science Bk.7 Comprehension Science 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	**Forms of Energy**	**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	- Describing different eye defects. - Making the model of the eye. - Discussing prevention and control of eye diseases.	Chart Chalk board Illustration.	-do-

						diseases and disorders.			
TERM III - 2018									
	1 & 2	**Environment**	**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	**Environment**	**Interdependence of living things on non-livingthings. Animals depend on non-living things (air, water, soil) Plants depend on non-living**	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.

			things (air, water, soil). Non-livingthings benefit from living things.						
	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**	**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		**Juvenile Deliquency, sexual deviations**	The learner, ♠ Defines sexual deviation ♠ States examples of sexual deviations	The learner, ♠ Recites a poem on ways of avoiding delinquency.	Sexual deviation - Bestiality - Homosexuality - Masturbation	- Demonstrating activities to address health concerns among young people	-do-	Comprehension Science BK 7

		family life.		♠ Discusses dangers of anti-social behaviour and sexual deviation. ♠ Describes ways of avoiding sexual deviations.		- Oral sex - Lesbianism - Incest			
	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