SCHOOL:……..TEACHER……

PRIMAY SEVEN SCHEME OF WORK, TERM I 2023
INTEGRATED SCIENCE

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
1	**1**	**HUMAN BODY**	**MUSCULAR-SKELETAL SYSTEM**	**Skeleton**	Description of the skeletal system What skeleton is Types of skeleton • Endo skeleton • Exo skeleton • Hydrostatic skeleton Moulting/ecdysis and its importance	The learner; Identifies and discusses the types of skeleton Describes moulting or ecdysis	The learner; Spells, pronounces, writes and uses the new words; • Skeleton • Hydrostatic • Endo • Exo • Ecdysis	Guided discovery Question and answer Explanation Discussion	Effective communication Logical reasoning Self-awareness Sharing	Identifying the types of skeleton Describing moulting as a change in organisms Writing word and sentences about skeleton	Insects Earthworms and snails Chalkboard illustrations Model of a human skeleton	P7 curriculum pg.64 Oxford Sci dictionary pg. 265 Longhorn Int. Sci Bk 7 pg. 1 Baroque Int. Sci BK 7 pg. 1 – 2	
	2		**MUSCULAR-SKELETAL SYSTEM**	**Human skeleton**	❖ What human skeleton consists ❖ Main parts of the human skeleton ❖ Regions of the human skeleton ❖ Structure of the human skeleton ❖ Classification of bones in the human body ❖ Protective functions of the human skeleton	The learner; Describes human skeleton Draws and labels the structure of a human skeleton Identifies different bones of a human skeleton	The learner; Names different bones in the human skeleton Writes guided notes on the human skeleton States protective functions of the human Skeleton	Group discussion Guided discovery Question and answer Explanation	Critical thinking Effective communication Appreciation of nature Creative thinking	Drawing and labeling the human skeleton Naming and classifying different bones in the human body Stating the functions of the human skeleton	Model of the human skeleton A well-drawn chart showing the human skeleton Samples of some bones Chart showing different bones	P7 curriculum pg. 64 Oxford Sci dictionary pg. 110 MK Int. Pri Sci Bk 7 pg. 1 – 2 Longhorn Int. Sci Bk 7 pg. 2, 4 and 5	

1	**3**	**HUMAN BODY**	**MUSCULAR-SKELETAL SYSTEM**	**Movable Joints**	• Structure of a joint and functions of the parts • Uses of joints • Hinge joints • Ball and socket joints • Pivot joints • Gliding joints	The learner; Identifies and describes movable joints Draws and labels movable joints	The learner reads and writes new words correctly; • Synovial • Cartilage • Lubricate • Pivot • Gliding	Class discussion Guided discovery Question and answer Inquiry Demonstration	Self-awareness Effective communication Critical thinking Sympathy	Identifying and describing types of joints Drawing and labeling different types of joints	Well-drawn chart showing types of joints Model of the human skeleton	P7 curriculum pg.64 Oxford Sci dictionary pg. 442 MK Int. Pri Sci Bk 7 pg. 3 – 5 Longhorn Int. Sci Bk 7 pg. 6 – 9	
	4		**MUSCULAR-SKELETAL SYSTEM**	**Immovable joints**	• Immovable joints (suture joints) • Location of different joints in the body	The learner; Draws and labels immovable joints Matches different joints to the locations in the body	The learner; Reads and writes words and sentences about joints	Question and answer Guided discovery Guided discovery	Critical thinking Self-awareness Empathy Making right choices	Drawing and labeling immovable joints Matching different joints to their locations in the body	Model of the human skeleton Chart showing the human skull Model of the human skull	P7 curriculum pg.64 Oxford Sci dictionary pg. 443 Baroque Int. Sci Bk 7 pg. 7 – 8 Longhorn Int. Sci Bk 7 pg. 9	
	5		**MUSCULAR-SKELETAL SYSTEM**	**Muscles**	➢ Characteristics of muscles ➢ Voluntary muscles (skeletal muscles) ➢ Involuntary muscles (cardiac and visceral muscles) ➢ Functions of the muscular skeletal system	The learner; Identifies muscles in the human body Classifies muscles of the human body as voluntary and involuntary	The learner; Reads and writes words, sentences and stories about muscles Describes movement of different muscles	Guided discovery Explanation Demonstration Question and answer	Problem solving Creative thing Decision making Effective communication	Describing the voluntary and involuntary muscles Explaining the functions of the muscular-skeletal system	Chalkboard illustrations Chart showing position of the biceps and triceps on the human arm	P7 curriculum pg. 64 0xford Sci dictionary pg. 861 MK Int. Pri Sci Bk 7 pg. 5 – 7 Longhorn Int. Sci Bk 7 pg. 10 – 12	

1	**6**		**USCULAR-SKELETAL SYSTEM**	**Diseases of the muscular-skeletal system**	• Diseases of bones and muscles ✓ Rickets ✓ Polio ✓ Tuberculosis of bones ✓ Leprosy ✓ Tetanus ✓ Arthritis • Prevention and treatment of diseases of bones and muscles	The learner; States the diseases of bones and muscles, their cause, signs and symptom, prevention, control and treatment	The learner; Recites a poem on the diseases of bones and muscles	Question and answer Guided discovery Explanation Brainstorming Guided group discussions	Self-awareness Sharing Effective communication Logical reasoning Problem solving	Stating the diseases of the bones and the muscles Demonstrating ways of preventing diseases of the bones and the muscles	Chalkboard illustrations Chart showing the signs and symptoms of the diseases of the muscular skeletal system	P7 curriculum pg. 64 MK Int. Pri Sci Bk 7 pg. 7 – 10 Baroque Int. Sci Bk 7 pg. 11 – 13 Longhorn Int. Sci Bk 7 pg. 12 – 15	
2	**1**		**MUSCULAR-SKELETAL SYSTEM**	**Disorders of the bones and muscles**	• Disorders of bones and muscles ✓ Fractures ✓ Sprains & strains ✓ Dislocation ✓ Burns & scalds ✓ Bone deformation • Prevention of disorders of bones and muscles	The learner; States the disorders of the bones and muscles Explains the ways of preventing disorders and injuries of bones &muscles	The learner; Spells, reads and writes new words correctly; ▪ dislocation ▪ deformation ▪ brittle ▪ sprain ▪ strain	Demonstration Explanation Group discussion Guided discovery	Team work Appreciation Responsibility Self-esteem Problem solving	Stating the disorders of bones and muscles Explaining the ways of preventing and the disorders of the bones, muscles and the system	Chalkboard illustrations Model of the human skeleton Chart showing disorders of the bones	P7 curriculum pg. 64 Baroque Int. Sci Bk 7 pg. 13 – 15 MK Int. Pri Sci Bk 7 pg. 8 – 10 Longhorn Int. Sci Bk 7 pg. 16 – 20	
	2	**HUMAN BODY**	**MUSCULAR-SKELETAL SYSTEM**	**Posture**	▪ Importance of correct posture ▪ Dangers of poor posture ▪ Health habits that help to keep the system in a healthy working condition; ▪ Physical exercise ▪ Balanced diet ▪ Correct posture ▪ Early treatment of diseases	The learner; States examples of correct body posture Demonstrated correct body posture	The learner; Spells, reads and writes words related to muscular-skeletal system • Backache • Deformation	Question and answer Demonstration Guided discovery Explanation	Problem solving Responsibility Self-awareness Appreciation	Stating examples of correct body posture and its importance Demonstrating correct body posture	Classroom environment Chalkboard illustration	P7 curriculum pg. 64 Longhorn Int. Sci Bk 7 pg. 20 – 23 MK Int. Pri Sci Bk 7 pg. 10 – 12 Mastering Pri Sci pg. 164 – 166	

2	**3**		**ELECTRICITY & MAGNETISM**	**Electricity as a form of energy**	➢ What electricity is ➢ simple structure of an atom ➢ why electricity is called form of energy ➢ Sources of electricity • Natural sources • Artificial sources	The learner; Identifies the sources of electricity Describes the structure of an atom	The learner; Spells, reads and writes new words correctly; ✓ Electricity ✓ Electrons ✓ Protons ✓ Neutrons	Guided discovery Group discussion Explanation Question and answer	Effective communication Creative thinking Confidence Responsibility	Identifying the sources of electricity Describing the structure of an atom	Batteries Dry cells Solar panels Models of windmills Dynamos	P7 curriculum pg. 67 Mastering Pri Sci pg. 212 – 213 MK Int. Pri Sci Bk 7 pg. 15 – 16 Baroque Int. Sci Bk 7 pg. 19	
	4		**ELECTRICITY & MAGNETISM**	**Uses of electricity**	➢ Uses of electricity in daily life ➢ Advantages of using electricity • Saves time • Reduces rate of deforestation etc. ➢ Disadvantages of using electricity ✓ Expensive to install ✓ Electric shock	The learner; Discusses the uses, advantages and disadvantages of electricity	The learner; Spells, pronounces and writes words and sentences about electricity	Group discussion Question and answer Guided discovery Explanation	Problem solving Responsibility Critical thinking	Discussing the uses, advantages and disadvantages of electricity	Flat irons Electric bulbs Chalkboard illustrations	P7 curriculum pg. 67 Baroque Int. Sci Bk 7 pg. 32 MK Int. Pri Sci Bk 7 pg. 19 Longhorn Int. Sci Bk 7 pg. 52	
	5		**ELECTRICITY & MAGNETISM**	**Current electricity**	❖ Definition of current electricity ❖ Types of current electricity; ✓ Direct current ✓ Alternating current ❖ Forms/examples of current electricity (hydro, solar, thermal, geothermal etc.)	The learner; Identifies types and forms of current electricity States the sources of current electricity Experiments with current electricity	The learner; Spells, reads, and writes words and sentences about current electricity	Experimentation Question and answer Guided discovery Group discussion Demonstration	Effective communication Self-awareness Critical thinking Logical presentation	Identifying the types and forms of current electricity Performing experiment on current electricity	Chalkboard illustrations Dry cells Electric bulb Electric wires	P7 curriculum pg. 67 Oxford Sci dictionary pg. 357 & 404 MK Int. Pri Sci Bk 7 pg. 15 – 19	

2	**6**	**MATTER AND ENERGY**	**ELECTRICITY & MAGNETISM**	**Static electricity**	❖ Definition and examples of static electricity ❖ Experiment about static electricity ❖ Lightning ❖ Lightning conductor ❖ Differences between current and static electricity.	The learner; States the differences between current and static electricity Describes the experiments about static electricity	The learner; Discusses the importance and dangers of lightning writes words and sentences about static electricity	Demonstration Guided discovery Experimentation Question and answer Explanation	Creative thinking Taking decisions Problem solving	Experimenting with static electricity Stating the differences between current electricity and static electricity	Woolen clothes Plastic combs Plastic ruler Plastic pens Lightning conductor Chalkboard illustrations	P7 curriculum pg. 67 Mastering Pri. Sci pg. 216 Understanding Int. Sci Bk 7 pg. 11 MK Int. Pri Sci Bk 7 pg. 27 – 29	
3	**1**		**ELECTRICITY MAGNETIS**	**Electric cells**	• Primary electric cells ✓ Dry cell ✓ Wet cell • Voltage • Secondary electric cells ✓ Lead acid battery ✓ Solar batteries	The learner; Draws and labels the parts of a dry cell and a wet cell	The learner; Examines the parts and describes the parts of electric cells	Experimentation Demonstration Guided discovery Question and answer	Creative thinking Self-awareness Appreciation Problem solving	Drawing and labeling parts of electric cells Calculating the voltage and number of primary cells in a circuit	Dry cells Phone batteries Lead acid battery Chart showing parts of a dry cell and simple cell	P7 curriculum pg. 67 Oxford Sci dictionary pg. Baroque Int. Sci Bk 7 pg. MK Int. Pri Sci Bk 7 pg.	
	2		**ELECTRICITY & MAGNETISM**	**Conductors and insulators of electricity**	• Conductors of electricity • Electrolytes(liquid conductors) • Electrodes (solid conductors) • Experiment to investigate solid conductors • Application of conductors • Applications of insulators	The learner; States examples of conductors and insulators of electricity	The learner; Discusses the applications of insulators and conductors of electricity in daily life situations	Question and answer Guided discovery Brainstorming Group discussion Experimentation Demonstration	Responsibility Effective communication Critical thinking Problem solving	Listing conductors and insulators Discussing the applications of insulators and conductors of electricity in daily life	Rubbers Plastics Glasses **<u>Requirements for experiment</u>** ✓ Electric bulb ✓ Copper wires ✓ Dry cells/ battery ✓ Plastic ✓ Metallic materials	P7 curriculum pg. 67 Mastering Pri. Sci pg. 236 Longhorn Int. Sci Bk 7 pg. 41 Understanding Int. Sci Bk 7 pg. 14 – 15	

3	**3**		**ELECTRICITY & MAGNETISM**	**Electric circuits**	➢ Components of a simple electric circuit • Electric bulb • Electric wire • Fuse and switch • Ammeter & voltmeter ➢ Symbols used in electric circuit	The learner; Draws, labels and describes symbols of an electric Circuit Examining the parts of different component of a circuit	The learner; Reads and writes words and sentences about electric circuit	Explanation Question and answer Guided discovery Group discussion	Creative thinking Self-awareness Effective communication	Drawing, labeling and describing symbols of an electric circuit Examining the component of an electric circuit	Electric wires Fuse and switch Chalkboard illustration Electric bulb	P7 curriculum pg. 67 Oxford Sci dictionary pg. 420 MK Int. Pri. Sci Bk 7 pg. 21 – 24 Baroque Int. Sci Bk 7 pg. 26 – 28	
	4		**ELECTRICITY & MAGNETISM**	**Electric circuits**	➢ Connecting a simple electric circuit ➢ Electric torch ➢ Energy changes in an electric circuit	The learner; Connects simple electric circuits States the energy changes in an electric circuit	The learner; Reads and writes words and short sentences about electric circuits	Demonstration Guided discovery Question and answer Experimentation	Problem solving Creative thing Responsibility Effective communication	Connecting simple electric circuits Stating energy changes in an electric circuit	Chart showing the parts of an electric circuit and an electric torch Electric wires Capsule fuses	P7 curriculum pg. 67 MK Int. Pri Sci Bk 7 pg. 21 – 24 Longhorn Int. Sci Bk 7 pg. 42 – 49 Understanding Int. Sci Bk 7 pg. 13 – 15	
	5		**ELECTRICITY & MAGNETISM**	**Short circuits**	• What short circuit is • Signs of short circuit ✓Sparks of light ✓Burnt insulation ✓Smelly smoke • Causes of short circuits • Dangers of short circuits • Electric shock and its First Aid • Ways of preventing short circuits	The learner; Discusses the causes and dangers of short circuits Performing experiments about short circuits	The learner; Reads words, sentences and short stories about short circuits	Experimentation Question and answer Demonstration Guided discovery Explanation	Logical presentation Critical thinking Self-awareness Taking decisions	Discussing the causes and dangers of short circuits Performing experiments about short circuits	Dry cells/battery Electric wires Metallic keys	P7 curriculum pg. 67 Longhorn Int. Sci Bk 7 pg. 50 – 53 MK Int. Pri Sci Bk 7 pg. 24 – 26 Understanding Int. Sci Bk 7 pg. 16	

3	**6**	**MATTER AND ENERGY**	**ELECTRICITY & MAGNETISM**	**Electrical appliance**	▪ What electrical appliances are ▪ Energy changes in electrical appliances ▪ Safety precautions in handling electricity and electrical appliances ▪ Generation, supply and management of electricity in Uganda	The learner; States the examples of electrical appliances and safety precautions in handling electricity and electrical appliances	The learner; Demonstrates safety precautions in handling electrical appliances	Demonstration Explanation Brainstorming Question and answer	Problem solving Creative thinking Appreciation Team work	Stating and demonstrating safety precautions in handling electricity and electrical appliances	Flat irons Fluorescent tubes Radios Electric bulbs Electric jug	P7 curriculum pg. 67 Mastering Pri Sci pg. 215 MK Int. Pri Sci Bk 7 pg. 31 Longhorn Int. Sci Bk 7 pg. 53	
4	**1**		**ELECTRICITY & MAGNETISM**	**Magnets & magnetism**	➢ What magnet and magnetism is ➢ Magnetic and non-magnetic materials ➢ Types of magnets ✓ Natural magnets (earth & lodestone) ✓ Artificial magnets ➢ Permanent and temporary magnets	The learner; Identifies natural and artificial magnets	The learner; Reads and writes words and short sentences about natural and artificial magnets	Explanation Guided discovery Question and answer	Effective communication Confidence Appreciation Critical thinking	Observing and identifying natural and artificial magnets writing words and short sentences about natural and artificial magnets	Bar magnets Horse shoe magnets Chalkboard illustration	P5 curriculum pg. 68 Mastering Pri Sci pg. 216 – 217 Oxford Sci dictionary pg. 497 – 498	
	2		**ELECTRICITY & MAGNETISM**	**Properties of magnets**	❖ Properties of magnets ❖ Applications of the properties of magnets ❖ The law of magnets ❖ Magnetic fields and their properties ❖ Uses of magnets	The learner; Discusses the properties of magnets States the uses of magnets	The learner; Reads and writes words and short sentences about magnetism	Experimentation Demonstration Guided discovery Group discussion Question and answer	Creative thinking Effective communication Self-awareness Appreciation Logical presentation	Discussing and demonstrating properties of magnets Applying properties of magnets in real life situations Stating uses of magnets	Bar magnets Iron fillings Retort stand Suspension strings Charts showing properties of magnets Chalkboard illustration	P7 curriculum pg. 68 Oxford Sci dictionary pg. 495 Mastering Pri Sci pg. 217 MK Int. Pri Sci Bk 7 pg. 32 – 35	

4	**3**	**MATTER AND ENERGY**	**ELECTRICITY & MAGNETISM**	**Magnetisation & demagnetization**	⇒ Making magnets a) Stroking method b) Induction method c) Electrical method ⇒ The strength of electro-magnets ⇒ Polarity of electro-magnets a) Using direction of current flow b) Using right hand grip rule ⇒ Demagnetizing magnets ⇒ Storage of magnets	The learner; Demonstrated ways of making temporary magnets Describes ways demagnetizing magnets	The learner; Reads and writes words and short sentences about magnetism ▪ Induction ▪ Stroking ▪ Electrical ▪ Polarity ▪ Clockwise ▪ Anti-clock wise	Demonstration Experimentation Guided discovery Group discussion	Effective communication Self-awareness Creative thinking Responsibility Sharing	Demonstrating ways of making temporary magnets Reading and writing words and short sentences about magnetisation	Chart showing methods of making temporary magnets Bar magnets Soft iron nail Dry cells/ battery Electric wires iron pins/ staples	P7 curriculum pg. 68 Supplementary Sci Bk 8 pg. 65 Understanding Int. Sci Bk 7 pg. 20 – 23 MK Int. Pri SC	
	4		**ELECTRICITY & MAGNETISM**	**Electro-magnets**	➢ What electro-magnets are ➢ Examples of electro-magnets ➢ Magnetic devices ➢ Structure of an electric bell ➢ Electricity and magnetism in the modern world of work ➢ Generating electricity using a dynamo (generators)	The learner; Draws and labels an electric bell Discusses the process involved in generation of electricity using dynamo	The learner; Discusses electricity and magnetism in modern world of work	Guided discovery Question and answer Group work	Responsibility Effective communication Creative thinking Confidence	Drawing and labeling an electric bell Generating electricity using a dynamo	A bicycle dynamo Bicycle headlamp Chart showing an electric bell Chart showing the structure of a dynamo	P7 curriculum pg. 71 Oxford Sci dictionary pg. 270 – 273 Longhorn Int. Sci Bk 7 pg. 72	
	5	**THE ENVIRONMENT**	**ENERGY RESOURCES IN THE ENVIRONMENT**	**Energy resources & their sources**	• Renewable and non-renewable energy resources • Energy resources from the sun (solar energy) • Energy resources from wind (wind energy) • Structure of wind windmill	The learner; States the energy resources and their sources Performs experiments about energy resources	The learner; Reads and writes words, sentences and short stories about energy resources and their sources	Demonstration Guided discovery Question and answer	Effective communication Creative thinking Logical presentation	Stating energy resources and their sources Performing experiments about steam energy	Chalkboard illustration Model of wind mill Chart showing the structure of a wind mill	P7 curriculum pg. 71 Baroque Int. Sci Bk 7 pg Longhorn Int. Sci pg. MK Int. Pri Sci Bk 7 pg.	

4	**6**		**ENERGY RESOURCES IN THE ENVIRONMENT**	**Energy resources from water**	✓ Hydroelectricity ✓ Steam engines ✓ Tidal energy ✓ Importance of water as energy resources ✓ Conservation water sources ✓ Siltation of water sources	The learner; Describes energy resources from water Experiments about steam energy	The learner; Identifies and discusses energy resources from water Explains the causes of silting and how to control it	Experimentation Question and answer Guided discovery Explanation	Problem solving Effective communication Creative thinking	Identifying and describing energy resources from water Experimenting about steam energy	Kettle Maize cob Metallic rod Charcoal stove Chalk board illustration	P7 curriculum pg. 71 Oxford Sci dictionary pg. 818 – 819 MK Int. Pri Sci Bk 7 pg. 48 – 49	
5	**1**	**THE ENVIRONMENT**	**ENERGY RESOURCES IN THE ENVIRONMENT**	**Energy resources from fossil & nuclear fuels**	✍ Petroleum (crude oil) ✍ Coal ✍ Natural gas ✍ Uranium ✍ Harvesting non-renewable energy resources ✍ Conserving non-renewable energy resources	The learner; Names and describes energy resources from fossil fuels and nuclear fuels	The learner; Writes words and short sentences about fossil fuels and nuclear fuels	Question and answer Guided discovery Explanation Brainstorming	Self-awareness Effective communication Confidence Creative thinking	Naming and describing energy resources from fossil fuels and nuclear fuels Writing short sentences about nuclear fuels	Bottles of paraffin Grease Petrol Diesel Chalkboard illustration	P7 curriculum pg. 71 Oxford Sci dictionary pg. 333 – 334 Longhorn Int. Sci Bk 7 pg. 80 MK Int. Pri Sci Bk 7 pg. 50 – 51	
	2		**ENERGY RESOURCES IN THE ENVIRONMENT**	**Energy resources from plants and animals**	✍ Biofuel ✍ Wood fuel ✍ Food energy ✍ Biogas ✍ Conserving energy resources from plants and animals	The learner; Describes how to make a biogas digester Initiates activities for sustainable ways of using energy.	The learner; Draws and labels a biogas digester	Project work Question and answer Guided discovery Demonstration	Appreciation care Effective communication Creative thinking	Describing the steps of making a biogas digester Initiating activities for sustainable ways of using energy	Jerry cans Animal dung or droppings Chart showing a biogas digester Chalkboard illustration	P7 curriculum pg. 71 Longhorn Int. Sci Bk 7 pg. 81 – 84 MK Int. Pri Sci Bk 7 pg. 51 – 57	

SPELLING ACTIVITIES FOR TERM ONE

TOPIC1: MUSCULAR-SKELETAL SYSTEM

- skeleton
- femur
- humerus
- tibia
- patella
- fibula
- ribcage
- scapula
- sternum
- vertebral column
- spinal cord
- axial
- appendicular
- synovial fluid
- synovial membrane
- cartilage
- ligament
- tendon
- hinge
- ball and socket
- pivot
- gliding
- muscle
- voluntary
- involuntary
- antagonistic
- flexors
- extensors

TOPIC 2: ELECTRICITY AND MAGNETISM

- ✓ electricity
- ✓ protons
- ✓ neutrons
- ✓ electrons
- ✓ current
- ✓ alternating current
- ✓ thermal
- ✓ geothermal
- ✓ generator
- ✓ hydroelectricity
- ✓ conductor
- ✓ insulator
- ✓ static
- ✓ lightning
- ✓ thunder
- ✓ circuit
- ✓ electric shock
- ✓ electrocution
- ✓ short circuit
- ✓ dynamo
- ✓ electro-magnet
- ✓ device
- ✓ appliances
- ✓ lodestone
- ✓ magnetism
- ✓ suspended
- ✓ magnetisation
- ✓ demagnetization
- ✓ induction
- ✓ electrical method
- ✓ stroking

TOPIC 3: ENERGY RESOURCES IN THE ENVIRONMENT

- ➢ resource
- ➢ renewable
- ➢ non renewable
- ➢ windmill
- ➢ siltation
- ➢ tidal
- ➢ steam engine
- ➢ fossil
- ➢ petroleum
- ➢ fractional distillation
- ➢ refinery
- ➢ coal
- ➢ nuclear
- ➢ uranium
- ➢ bio gas
- ➢ bio fuel
- ➢ sustainable
- ➢ sparingly
- ➢ recycle
- ➢ conserve

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1	**1**	**MATTER AND ENERGY**	**SIMPLE MACHINES & FRICTION**	**Friction**	Definition of friction Types of friction • static friction • dynamic friction • viscosity friction • limiting friction Friction as a useful force and how to increase it Friction as a nuisance and how to overcome it.	The learner; • Defines friction • Investigates and states the effects of friction on matter • States the importance of friction	The learner; ▪ Spells, reads and writes words and sentences about friction ▪ Describes the different ways friction can be reduced increased	Guided discovery Question and answer Explanation Discussion	Effective communication Logical reasoning Self-awareness Sharing	✓ Defining friction ✓ Stating the importance and danger effects of friction ✓ Describing the different ways of increasing and decreasing friction	Sand papers Bicycle handles and tyres Shoes Rollers Ball bearing Grease and oil Chalkboard illustrations	P7 curriculum pg. 75 Oxford Sci dictionary pg. 265 Mastering Pri Sci pg. 242 – 243 Pri Science for Uganda pg. 84 – 85 MK Int. Pri Sci Bk 7 pg. 60 – 64	
	2		**SIMPLE MACHINES & FRICTION**	**Simple machines**	❖ Definition of simple machines ❖ Characteristics of simple machines ❖ Examples of simple machines ❖ How machines simplify work ❖ Calculating the work done by machines ❖ Classes/types of simple machines	The learner; ❖ Defines machines ❖ Describes characteristics and classes of simple machines ❖ Models machines using local materials	The learner; • Reads and writes words and sentences about machines	Group discussion Guided discovery Question and answer Explanation	Critical thinking Effective communication Appreciation of nature Creative thinking	Defining simple machines Describing characteristics of simple machines Explaining the different ways machines simplify work	Pair of scissors See saw Spade Wheel barrow bicycles Chalkboard illustrations	P7 curriculum pg. 75 Oxford Sci dictionary pg. 492 MK Int. Pri Sci Bk 7 pg. 66 – 67 Pri Science for Uganda pg. 82 – 84	

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1	**3**	**MATTER AND ENERGY**	**SIMPLE MACHINES & FRICTION**	**Levers**	➢ What a lever is ➢ Parts of a lever ➢ Classes of levers • First class levers • Second class levers • Third class levers ➢ Applications/uses of levers in daily life	The learner; States the meaning of a lever Names parts of a lever Identifies different classes of levers	The learner; Spells, writes words about levers Identifies classes of levers Draws and labels levers States uses of levers in daily life	Demonstration Guided discovery Explanation Experimentation Question and answer	Critical thinking Appreciation Effective communication Making right choices	Naming parts of a lever Identifying classes of levers Modeling levers Drawing and labeling levers Stating uses of levers	Wheel barrow, pliers, pair of scissors, claw hammer, see saws Models of tools Chart showing machines in different classes of levers	P7 curriculum pg. 75 Oxford Sci dictionary pg. 473 MK Int. Pri Sci Bk 7 pg. 68 – 72 Mastering Pri Sci pg. 238 – 239	
	4		**SIMPLE MACHINES & FRICTION**	**Moments**	❖ What moment is ❖ Law of moments ❖ Calculating force when given two distances ❖ Calculating distances when given two forces	Describes the effect of force on a lever Calculates simple problems on moment Experiments with see saw	The learner; Reads and writes sentences about moments States the principle of moments	Demonstration Guided discovery Problem solving Experimentation	Effective communication Logical thinking Taking decisions Problem solving	Describing the effect of force on a lever Stating and applying the principle of moments Calculating simple problems on moments	See saw Chalkboard ruler Chart showing worked example Chalkboard illustration	P7 curriculum pg. 75 Oxford Sci dictionary pg. 297 & 536 MK Int. Pri Sci Bk 7 pg. 72 – 73 Longhorn Int. Sci Bk 7 pg. 92	
	5		**SIMPLE MACHINES & FRICTION**	**Inclined planes**	❖ What an inclined plane is ❖ Parts of an inclined plane ❖ Examples of inclined planes ❖ Increasing efficiency of inclined planes ❖ Applications of inclined planes ❖ Simple calculations on inclined planes	The learner; Demonstrated how inclined planes work Draws inclined planes Calculates mechanical advantage of inclined planes	The learner; Names and describes inclined planes Reads and writes words and sentences about inclined planes	Question and answer Group discussion Demonstration Guided discovery Explanation Inquiry	Problem solving Responsibility Decision making Effective communication	Naming, drawing and modeling inclined planes Calculating the mechanical advantage of machines Listing uses of inclined planes	Stair cases Ladders Ramps Chart showing inclined planes Model of ladder from local materials	P7 curriculum pg. 75 Mastering Pri Sci pg. 240 Pri Science for Uganda pg. 82 MK Int. Pri Sci Bk 7 pg. 73 – 74	

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1	**6**	**MATTER AND ENERGY**	**SIMPLE MACHINES AND FRICTION**	**Wedges and Screws**	❖ What a wedge is ❖ Illustration of a wedge ❖ Examples of wedges ❖ Increasing efficiency of wedges ❖ Applications of wedges in daily life Definition of a screw ❖ Parts of a screw ❖ Examples of screws ❖ Improving efficiency of a screw ❖ Applications of screws	The learner; Defines wedges and screws Carries out practical uses of wedges and screws Draws and labels wedges and screws	The learner; Spells and pronounces words Reads and writes sentences about wedges and screws Describes how wedges and screws work	Guided discovery Experimentation Question and answer Explanation	Effective communication Responsibility Decision making Appreciation	Experimenting how wedges and screws work Drawing and labeling wedges and screws Discussing the uses of wedges and screws in daily life	Model of a car jack Knives/ pangas Razor blades Wooden wedge Chalkboard illustration	P7 curriculum pg. 75 Pri Science for Uganda pg. 83 – 84 Oxford Sci dictionary pg. 731 MK Int. Pri Sci Bk 7 pg. 75 – 77	
2	**1**		**SIMPLE MACHINES & FRICTION**	**Wheels and axles**	❖ Definition of a wheel and axle ❖ Illustration of a wheel and axle ❖ Examples of wheels and axles ❖ Increasing efficiency of a wheel and axle ❖ Applications/uses of wheels and axles ❖ Simple calculations on wheels and axles(gears & cogs)	The learner; Defines wheels and axles Draws and labels wheels and axles Models wheels and axles	The learner; Spells, pronounces and writes words correctly Discusses the uses of wheels and axles	Question and answer Guided discovery Explanation Demonstration	Creative thinking Problem solving Effective communication Care Responsibility	Defining wheels and axles Drawing and labeling diagrams showing parts of wheels and axles Discussing uses of wheels and axles	Model of a wheel and axle Screw drivers Model of windlass, steering wheel Chalkboard illustration	P7 curriculum pg. 76 Mastering Pri Sci pg. 241 MK Int. Pri Sci Bk 7 pg. 82 – 84 Pri Science for Uganda pg. 82 and 84	
	2		**SIMPLE MACHINES & FRICTION**	**Single fixed pulleys**	❖ What a pulley is ❖ Parts of a fixed pulley ❖ Characteristics of single fixed pulleys ❖ Calculating mechanical advantage, load and effort on single fixed pulleys ❖ Applications of fixed pulleys	The learner; Draws and labels diagram of a pulley Calculates simple problems on single fixed pulleys	The learner; Describes the characteristic of single fixed pulleys Reads and writes words and sentences about pulleys	Question and answer approach Group discussion Demonstration Experimentation	Problem solving Creative thinking Effective communication Making right choices	Drawing and naming parts of a fixed pulley Describing the characteristics of single fixed pulley Calculating simple problems on single fixed pulley	Model of single fixed pulley Chart showing pulleys Chalkboard illustration Flag pole Curtain lines	P7 curriculum pg. 76 Oxford Sci dictionary pg. 671 MK Int. Pri Sci Bk 7 pg. 78 Pri Science for Uganda pg. 82	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
2	**3**	**MATTER AND ENERGY**	**SIMPLE MACHINES & FRICTION**	**Single movable pulleys**	❖ Parts of a movable pulley ❖ Characteristics of single movable pulley ❖ Calculations on single movable pulleys ❖ Applications of single movable pulleys ❖ Differences between single movable and fixed pulleys	The learner; States the characteristics of single movable pulley Calculates simple problems on movable pulleys	The learner; Describes how a movable pulley works Compares a single fixed pulley with a single movable pulley	Demonstration Experimentation Guided discovery Question and answer	Effective communication Logical reasoning Problem solving Appreciation	Stating the characteristics of single movable pulley Comparing a single movable pulley with single fixed pulley Calculating simple problems	Chart showing types of pulleys Models of pulleys Chalkboard illustration	P7 curriculum pg. 76 Oxford Sci dictionary pg. 671 MK Int. Pri Sci Bk 7 pg. 79 – 80 Mastering Pri Sci pg. 241	
	4		**SIMPLE MACHINES AND FRICTION**	**Block and tackle pulleys**	❖ Parts of a block and tackle pulley ❖ Characteristics of block and tackle pulleys ❖ Calculations on block and tackle pulleys ❖ Applications of block and tackle pulleys	The learner; Lists characteristics of block and tackle pulleys Describes how block and tackle pulley works	The learner; Reads and writes words and sentences about block and tackle pulleys Discusses the advantages of block and tackle pulley	Group discussion Explanation Demonstration Guided discovery Experimentation	Effective communication Problem solving Critical thinking Making right choices Appreciation	Listing the characteristics of block and tackle pulley Describing how block and tackle pulley works Discussing the advantages of pulleys in the modern world of work	Chart showing types of pulleys Chalkboard illustration Models of pulleys Strings Bucket of sand	P7 curriculum pg. 76 Oxford Sci dictionary pg. 671 MK Int. Pri Sci Bk 7 pg. 80 – 82 Pri Science for Uganda pg. 82	
	5	**HUMAN BODY**	**EXCRETORY SYSTEM**	**Excretion**	❖ Definition of excretion and excretory system ❖ Importance of excretion ❖ Excretory organs in humans and excretory products	The learner; Defines excretion and excretory system States the importance of excretion Identifies excretory products	The learner; Spells, reads and writes words about excretory system Names excretory organs	Explanation Inquiry Guided discovery Group discussion	Self-awareness Decision making Critical thinking Care Concern	Defining key words about excretory system Naming excretory organs and wastes Discussing the importance of excretion	Chart showing the excretory organs Chalkboard illustration Spelling cards	P7 curriculum pg. 79 Oxford Sci dictionary pg. 306 Pri Science for Uganda pg. 33 MK Int. Pri Sci Bk 7 pg. 88	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
2	**6**	**HUMAN BODY**	**EXCRETORY SYSTEM**	**The skin as excretory organ**	❖ The structure of a human skin ❖ Layers of the human skin ✓ Epidermis ✓ Dermis ❖ Functions of the parts of the skin ❖ Functions of the human skin	The learner; Draws and labels the diagram of the human skin Discusses the functions of the human skin and role in excretion	The learner; Reads and writes words and sentences about the skin Describes the structure and layers of the skin	Demonstration Question and answer Guided discovery Group discussion Explanation	Critical thinking Problem solving Self-awareness Effective communication	Drawing and labeling the diagram of the human skin Describing the skin layers Discussing the functions of the human skin and its role in excretion	Chart showing the diagram of the human skin Chalkboard illustrations Model of the human skin	P7 curriculum pg. 79 Oxford Sci dictionary pg. 751 MK Int. Pri Sci Bk 7 pg. 88 – 90 Mastering Pri Sci pg. 21 - 22	
3	**1**		**EXCRETORY SYSTEM**	**Diseases of the human skin**	❖ Skin diseases ❖ How communicable skin diseases spread ❖ Causes, signs and symptoms of skin diseases ❖ Prevention, control and treatment of skin diseases	The learner; Names diseases that affect the human skin	The learner; Describes the signs and symptoms of skin diseases Discusses and writes the ways of controlling diseases of the human Skin	Group discussion Guided discovery Question and answer Explanation	Self-awareness Responsibility Critical thinking Decision making	Naming diseases that affect the skin Describing the signs and symptoms of different diseases Discussing and writing ways of controlling skin diseases	Chart showing diseases and disease Chalkboard illustration	P7 curriculum pg. 79 Pri Science for Uganda pg. 34 MK Int. Pri Sci Bk 7 pg. 91 – 92 Longhorn Int. Sci Bk 7 page 141 – 142	
	2		**EXCRETORY SYSTEM**	**Disorders of the human skin & care**	❖ Skin disorders and injuries ✓ Albinism ✓ Bruises ✓ Burns and scalds ✓ Cuts and wounds ❖ First Aid to skin injuries ❖ Prevention of injuries to the skin ❖ Ways of caring for human skin	The learner; Names and describes skin disorders Practices ways of keeping the skin healthy	The learner; Explains the causes of skin disorders Reads and writes words and sentences about the skin disorders	Demonstration Group discussion Question and answer Guided discovery Inquiry	Effective communication Self-awareness Logical thinking Sympathy Care	Naming and describing the disorders of the human skin Explaining the causes of skin disorders Discussing and practicing ways of keeping the skin healthy	Electronic media Chalkboard illustration Documentaries on skin disorders	P7 curriculum pg. 79 MK Int. Pri Sci Bk 7 pg. 93 – 94 Longhorn Int. Sci Bk 7 page 143 – 144	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
3	**3**	**HUMAN BODY**	**EXCRETORY SYSTEM**	**The urinary system (**kidneys, ureter and urinary bladder)	❖ Functions of the kidneys ❖ Structure of human urinary system and kidney. ❖ Functions of the parts of a kidney ❖ Organs of the urinary system	The learner; Describes the working of the urinary system Discusses the functions of the kidneys	The learner; Draws and labels the organs of the urinary system and kidneys Models the organs that make up the urinary system	Guided discovery Discussion Explanation Question and answer approach Inquiry	Acceptance Appreciation of the nature Decision making Responsibility	Drawing and labelling the urinary system Discussing the functions of the kidneys Describing how the urinary system works	Chart showing the structure of the urinary system and kidney Models of organs of the urinary system Chalkboard illustration	P7 curriculum pg. 79 Oxford Sci dictionary pg. 448 MK Int. Pri Sci Bk 7 pg. 94 – 96	
	4		**EXCRETORY SYSTEM**	**Kidney diseases and disorders**	❖ Kidney diseases ✓Bilharziasis ✓Nephritis ✓Cystitis ❖ Causes, signs and symptoms, prevention and treatment of kidney diseases ❖ Kidney disorders ✓Kidney failure ✓Kidney stones ✓Enlarged prostate glands ✓Uraemia Care for the kidneys	The learner; Names diseases and disorders of the kidneys and the urinary system Practices the ways of avoiding the diseases and disorders of the kidneys	The learner; Discusses the causes, signs and symptoms of the diseases and disorders of the urinary system	Explanation Question and answer Guided discovery Use of electronic media	Responsibility Self-awareness Decision making Problem solving	Naming and describing the diseases and disorders of the urinary system and the kidneys Practicing ways of avoiding the diseases and disorders of the urinary system and the kidneys	Chart showing the urinary system and the kidney Chalkboard illustration Electronic media	P7 curriculum pg. 79 MK Int. Pri Sci Bk 7 pg. 97 – 98 Primary Sci for Uganda page 34	
	5		**EXCRETORY SYSTEM**	**The lungs as excretory organs**	❖ Functions of the lungs as excretory organs ❖ The structure and model of the human lungs ❖ Adaptations of lungs and air sacs to their functions	The learner; Describes the functions of the lungs as excretory organs Mentions adaptations of lungs	The learner; Drawing and labelling the structure of lungs Models the human lungs	Question and answer Guided discovery Discussion Explanation	Effective communication Critical thinking Responsibility Acceptance	Describing the functions of the lungs as excretory Drawing and labelling the structure of the lungs Modeling human lungs	Chart showing the structure of the human lungs Chalkboard illustration Models of the human lungs	P7 curriculum pg. 79 Oxford Sci dictionary pg. 489 MK Int. Pri Sci Bk 7 pg. 98 – 99	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
3	**6**	**HUMAN BODY**	**EXCRETORY SYSTEM**	**The liver as an excretory organ**	❖ Functions of the liver ❖ Simple structure of the human liver. ❖ Diseases of the human liver • Hepatitis B • Liver cirrhosis • Liver abscess • Liver cancer ❖ Care for the human liver	The learner; Describes the functions of the liver as an excretory organ in human beings Names liver diseases and practices good care	The learner; Discusses the signs and symptoms of the diseases affecting the liver and ways of avoiding them	Guided discovery Explanation Question and answer Discussion Use of electronic media	Creative thinking Care Self-awareness Problem solving Critical thinking	Describing the functions of the liver as an excretory organ in human beings Naming the diseases of the liver Practicing ways of taking good care of the liver	Chalkboard illustration Electronic media Sentence cards	P7 curriculum pg. 79 MK Int. Pri Sci Bk 7 pg. Primary Science for Uganda page 33 – 34	
4	**1**	**MATTER AND ENERGY**	**LIGHT ENERGY**	**Light as a form of energy**	❖ What light is ❖ Natural and artificial sources of light ❖ Luminous objects ❖ Non luminous objects ❖ Importance of light	The learner; Names sources of light Discusses the importance of light in the environment	The learner; Describes light as a form of energy Reads and writes words and sentences about light	Multi-grade approach Guided discovery Discussion Brainstorming Question and answer	Effective communication Logical reasoning Making right choices Critical thinking	Describing light as form of energy Naming sources of light Discussing the importance of light in the environment	Torches Candles Natural environment Chalkboard illustration Describes luminous and non-luminous objects	P7 curriculum pg. 82 Oxford Sci dictionary pg. 416 MK Int. Pri Sci Bk 7 pg. 102 – 103 Primary Sci for Uganda page 78	
	2		**LIGHT ENERGY**	**How light travels**	❖ The speed of light ❖ Properties of light ✓Travels in all directions from the source ✓Travels in a straight line ❖ Experiment to show that light travels in straight line	The learner; Experiments to investigate how light travels Describes how light travels	The learner; Reads and writes brief words and sentences about light energy	Experimentation Demonstration Observation Guided discovery Question and answer	Creative thinking Appreciation Empathy Logical presentation Effective communication	Experimenting to investigate how light travels Writing words and sentences to describe how light travels	Candle Cardboards Match box Strings/threads Water pipes	P7 curriculum pg. 82 MK Int. Pri Sci Bk 7 pg. 103 – 106 Primary Sci for Uganda page 78 – 79	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
4	**3**	**MATTER AND ENERGY**	**LIGHT ENERGY**	**Beams of light**	❖ Rays of light ❖ Parallel beam ❖ Converging beam ❖ Diverging beam ❖ Application of different beams of light	The learner; Explains the meaning of ray and beam of light Describes and draws beams of light	The learner; Reads and writes words and sentences about rays and beams of light Explains application of beams of light	Observation Guided discovery Question and answer Discussion Inquiry	Effective communication Critical thinking Taking decisions Sympathy	Explaining rays and beams of light Describing and drawing beams of light Mentioning applications of different beams of light	Plane mirrors Torches Candles Chalkboard illustration Chart showing beams of light	P7 curriculum pg. 82 MK Int. Pri Sci Bk 7 pg. 104 Longhorn Int. Sci Bk 7 page 169	
	4		**LIGHT ENERGY**	**Effects of different materials on light**	❖ Types of materials ✓Transparent objects ✓Translucent objects ✓Opaque objects	The learner; Investigates the behaviour of light when it interacts with surfaces and objects Describes the effects of different materials on light	The learner; Writes brief description on the interaction between light and different surfaces and objects	Experimentation Demonstration Multi-grade approach Observation Guided discovery Explanation	Effective communication Problem solving Logical presentation Making right choices	Investigating the behaviour of light when it interacts with different surfaces and objects Writing brief sentences about the interaction between light and different surfaces and objects	Transparent glasses Tracing paper Frosted glass Torch, candle or lamp Pieces of wood Plastics and metals	P7 curriculum pg. 82 Oxford Sci dictionary pg. 830 – 831 Longhorn Int. Sci Bk 7 page 171	
	5		**LIGHT ENERGY**	**Shadows**	❖ Definition of a shadow ❖ Characteristics of shadows ❖ Factors that determine type of shadow formed ❖ Types/regions of a shadow ❖ Importance of shadows	The learner; Describes how shadows are formed Experiments to investigate factors affecting shadows	The learner; Draws and labels shadows formed by different objects Writes words and brief sentences on shadows	Experimentation Observation Guided discovery Demonstration	Critical thinking Logic Effective communication	Describing how shadows are formed Writing words and brief sentences about shadows	White tile/paper Torch/candle Opaque objects like wood, metals, stones Chart showing types of shadows	P7 curriculum pg. 82 Oxford Sci dictionary pg. 742 Understanding Int. Sci Bk 7 page 63 – 64	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
4	**6**	**MATTER AND ENERGY**	**LIGHT ENERGY**	**Eclipses**	❖ Definition of eclipse ❖ Formation of eclipses ❖ Types of eclipses ✓Solar eclipse (SME) ✓Lunar eclipse (SEM)	The learner; Describes how different eclipses are formed - Solar - Lunar Names types of eclipses	The learner; Writes brief description about different types of eclipses Draws and labels solar and lunar eclipses	Demonstration Guided discovery Multi-grade approach Question and answer	Effective communication Creative thinking Problem solving Making right decisions Appreciation	Describing how different eclipses are formed Writing words and brief sentences about eclipses Drawing and labelling solar and lunar eclipses	Chart showing solar and lunar eclipses Chalkboard illustration Print outs of solar and lunar eclipses	P7 curriculum pg. 82 Oxford Sci dictionary pg. 265 – 266 Longhorn Int. Sci Bk 7 page 175	
5	**1**		**LIGHT ENERGY**	**Reflection of light**	❖ Definition of reflection of light ❖ Types of reflection of light ✓Regular reflection ✓Irregular reflection ❖ Laws of reflection of light ❖ Applications of reflection of light ❖ Simple calculations about reflection of light	The learner; States laws of reflection of light Calculates simple problems on reflection of light Mentions and describes types of reflection	The learner; Draws and labels ray diagrams Explains the importance of reflection of light in the environment	Guided discovery Question and answer Explanation Observation Demonstration	Problem solving Logical presentation Critical thinking Decision making	Drawing and labelling ray diagrams Stating the laws of reflection Calculating simple problems on reflection of light Explaining the importance of reflection of light to the environment	Chalkboard illustration Sentence cards Chart showing ray diagrams about types of reflection Plane mirrors Torches, candles and lamps	P7 curriculum pg. 82 Oxford Sci dictionary pg. 42 Primary Sci for Uganda page 79 Longhorn Int. Sci Bk 7 page 176 – 177	
	2		**LIGHT ENERGY**	**Plane mirrors**	❖ Plane mirrors ❖ Characteristics of images formed by plane mirrors ❖ Uses of plane mirrors	The learner; Describes how images are formed Explains characteristics of images formed by plane mirror	The learner; Draws images formed by plane mirrors Discusses uses of plane mirrors to people	Discussion Question and answer Guided discovery Explanation	Creative thinking Effective communication Making right choices Responsibility	Describing how images are formed Explaining the characteristics of images formed by plane mirrors Discussing the uses of plane mirrors to people	Chalkboard illustration Word/strip cards Plane mirrors Books and pens White tile/paper	P7 curriculum pg. 82 Oxford Sci dictionary pg. 530 Longhorn Int. Sci Bk 7 page 180	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
5	**3**	**MATTER AND ENERGY**	**LIGHT ENERGY**	**Simple optical instruments**	❖ Periscopes ❖ Characteristics of images formed by periscope ❖ Uses of periscopes ❖ Pinhole camera ❖ Parts of a pinhole camera ❖ Characteristics of images formed by pinhole camera	The learner; Describes how periscopes and pinhole cameras work Describes images formed by pinhole camera	The learner; Drawing and labelling a periscope and pinhole camera Modeling a periscope and pinhole camera	Observation Guided discovery Use of electronic media Question and answer	Effective communication Problem solving Responsibility Logic Fluency	Describing the characteristics of images formed by pinhole camera Drawing and labeling a pinhole camera and periscope Modeling a pinhole camera and periscope	Chart showing a pinhole camera and periscope Models of pinhole camera and periscope Chalkboard illustrations Electronic media	P7 curriculum pg. 82 Oxford Sci dictionary pg. 609 Understanding Int. Sci Bk 7 page 68 Primary Sci for Uganda page 80	
	4		**LIGHT ENERGY**	**Refraction of light**	❖ Definition of refraction ❖ Principle of refraction ❖ Effects of refraction of light	The learner; States the principle of refraction of light Experiments to investigate effects of refraction in the environment	The learner; Describes the effects of refraction of light Reads and writes words and brief sentences about refraction of light	Experimentation Demonstration Guided discovery Question and answer	Effective communication Responsibility Critical thinking Logical presentation	Stating the principle of refraction Experimenting to investigate the effects of refraction of light in the environment Using experiment results to describe the effects of refraction of light	Chalkboard illustration Chart showing the ray diagram for refraction of light Glass slabs White tiles Drawing pins	P7 curriculum pg. 83 Oxford Sci dictionary pg. 698 Primary Sci for Uganda page 79 Mastering Pri Sci page 223	
	5		**LIGHT ENERGY**	**Glass prisms**	❖ Definition of prism ❖ Refraction through rectangular glass prism ❖ Spectrum (triangular glass prism) ❖ Dispersion of light ❖ The rainbow	The learner; Performs experiments about refraction through glass prism Explains how a rainbows are formed	The learner; Writes words and brief sentences about refraction, dispersion and formation of rainbows	Experimentation Demonstration Multi-grade approach Use of electronic media Guided discovery	Effective communication Problem solving Responsibility Making right decisions	Performing experiments about refraction through different media and formation of a rainbow Explaining how rainbows are formed Drawing and labeling diagrams about refraction, dispersion and rainbows	Basin with clean water White tiles/screen Torch Plane mirrors Glass slabs/prisms	P7 curriculum pg. 83 Oxford Sci dictionary pg. 660 – 661 MK Int. Sci Bk 7 page	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
	6	MATTER AND ENERGY	LIGHT ENERGY	**Lenses**	❖ Definition of lens ❖ Types of lenses Convex lenses Concave lenses ❖ Effects of lenses on beams of light ❖ Uses of lenses	The learner; Carries out experiments to investigate the effects of lenses on beams of light States the uses of lenses	The learner; Draws and names different lenses Describes how lenses affect beams of light	Experimentation Guided discovery Discussion Use of electronic media Explanation	Problem solving Critical thinking Making right decisions Responsibility	Carrying out experiments to investigate the effects of lenses on beams of light Drawing and labelling diagrams to show how lenses affect beams of light Modeling lenses	- Concave lenses - Convex lenses - Models of lenses - Chalkboard illustrations - Electronic media	P7 curriculum pg. 83 Oxford Sci dictionary pg. 469	
6	**1**		LIGHT ENERGY	**Magnifying glass & lens camera**	❖ Characteristics of images formed by magnifying glass ❖ Parts of the lens camera and their functions ❖ Characteristics of images formed by the lens camera	The learner; Describes images formed by a magnifying glass and a lens camera Names parts of a lens camera	The learner; Draws and labels magnifying glasses and lens camera Makes models of lens camera	Guided discovery Explanation Question and answer Multi-grade approach	Effective communication Critical thinking Responsibility Logical presentation	Describing images formed by magnifying glass and lens camera Naming parts of a lens camera Making models of magnifying glass and lens camera	Models of magnifying glasses and lens camera Chart showing parts of lens camera Chalkboard illustration	P7 curriculum pg.83 Oxford Sci dictionary pg. 126	
	2		LIGHT ENERGY	**The human eye**	❖ The structure of the human eye ✓ Parts of the human eye and their functions ✓ Characteristics of images formed by the human eye ❖ Comparison of the human eye and the lens camera ✓ Differences ✓ Similarities	The learner; Describes the working of the human eye as an optical organ Draws and labels the human eye Describes images formed by the human eye	The learner; Compares the human eye and the lens camera Makes mode of the human eye	Guided discovery Question and answer Explanation Inquiry Use of electronic media	Critical thinking Problem solving Decision making Empathy Responsibility	Describing the working of the human eye Drawing and labeling the human eye Making models of the human eye Comparing the human eye and the lens camera	Chart showing a diagram of a human eye Model of the human eye Chalkboard illustrations	P7 curriculum pg. 83 Oxford Sci dictionary pg. 312	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIS	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
6	**3**	**MATTER AND ENERGY**	**LIGHT ENERGY**	**Diseases of the human eye**	Common eye diseases ❖ Conjunctivitis ❖ Trachoma ❖ River blindness ❖ Night blindness ❖ Causes, signs and symptoms, and control, prevention and treatment of diseases of the human eye.	The learner; Names and describes diseases of the human eye Practices ways of avoiding the diseases of the human Eye	The learner; Reads and writes words and brief sentences about the diseases of the human eye and ways of avoiding them	Explanation Guided discovery Discussion Observation Question and answer	Effective communication Taking right decisions Care Sympathy Responsibility	Naming and describing the diseases of the human eye Practicing the ways of avoiding the diseases of the human eye	Chalkboard illustrations Sentence cards	P7 curriculum pg. 83 Primary Sci for Uganda page 80	
	4		**LIGHT ENERGY**	**Eye defects/disorders and their correction**	❖ Defects/disorders of the human eye ✓ Short sightedness ✓ Long sightedness ✓ Astigmatism ✓ presbyopia ❖ Care for the human eye	The learner; Identifies the eye defects Draws and labels diagrams showing eye defects Discusses ways of caring for the human Eye	The learner; Spells, reads and writes words about eye defects Describes the eye defects, their causes and states their correction	Group discussion Guided discovery Explanation Demonstration Question and answer	Problem solving Caring for others Effective communication Sympathy Taking decisions	Drawing and labelling diagrams to describe eye defects and their correction Mentioning the causes of eye defects Practicing correct care for the human eye	Chart showing eye defects and their correction Lenses Chalkboard illustrations	P7 curriculum pg. 83 Primary Sci for Uganda page 81	

SPELLING ACTIVITIES FOR TERM TWO

TOPIC 4: SIMPLE MACHINES AND FRICTION

- friction
- force
- treads
- ball bearings
- grease
- spikes
- Grooved rim
- tarmacking
- nuisance
- retards
- efficiency
- machine
- simplifies
- levers
- fulcrum
- effort
- moments
- wedges
- inclined plane
- mechanical advantage
- screws
- wheels and axles
- pulleys
- single fixed
- single movable
- block and tackle

TOPIC 5: EXCRETORY SYSTEM

⇒ excretion
⇒ waste products
⇒ epidermis
⇒ dermis
⇒subcutaneo uslayer
⇒ melanin pigment
⇒ vasodilation
⇒ vasoconstriction
⇒ ringworm
⇒ athlete's foot
⇒ fungal
⇒ antibiotics
⇒ ureter
⇒ urinary system
⇒ urinary bladder
⇒ medulla
⇒ cortex

TOPIC 6: LIGHT ENERGY

- convergent beam
- divergent beam
- transparent
- translucent
- opaque
- shadows
- umbra
- penumbra
- Eclipse
- Solar
- Lunar
- reflection
- incident ray
- glancing angle
- normal
- plane mirror
- Refraction
- apparent depth
- emergent ray
- optical instrument
- Lens
- Spectacles
- magnifying lens
- Periscope
- spectrum
- prism
- dispersion
- pinhole camera
- aperture
- diaphragm
- shutter
- eyelid
- cornea
- sclera
- myopia
- hypermetropia
- astigmatism

SCHOOL……TEACHER ……

PRIMAY SEVEN SCHEME OF WORK, TERM III 2023
INTEGRATED SCIENCE

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIES	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
1	**1**	**THE ENVIRONMET**	**INTERDEPENDENCE OF THINGS IN THE ENVIRONT**	**Components of the environment**	❖ Definition of environment. ❖ Types of environment ✓ Biological ✓ Physical ❖ Components of the environment. ✓ Plants ✓ Animals ✓ Water bodies ✓ Air ✓ Soil	The learner; Names components of the environment Observes components of the environment	The learner; Reads words and sentences about components of the environment	Brainstorming Question and answer Guided discovery Explanation Nature walk	Appreciation Effective communication Problem solving Sharing	Naming the components of the environment Observing the components of the environment through nature walk	The natural environment Chalkboard illustration Plants Soil	P7 curriculum pg. 87 MK Int. Pri Sci Bk 7 pg. 145	
	2		**INTERDEPENDENCE OF THINGS IN THE ENVIRONT**	**Interdependence of plants and animals**	✓Animals depend on plants. ✓Animals depend on other animals. ✓Plants depend on animals. ✓Plants depend on other plants. **Food chains**	The learner; Describes how living component of the environment benefit from each other	The learner; Reads words and sentences about interdependence	Guided discovery Explanation Observation Nature walk Question and answer	Effective communication Self-awareness Decision making Fluency	Describing the ways how plants and animals benefit from each other as living components of the environment Constructs food chains and describe flow of energy	Chalkboard illustration The natural environment	P7 curriculum pg. 87 MK Int. Pri Sci Bk 7 pg. 145 – 149	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIES	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
1	**3**	**THE ENVIRONMET**	**INTERDEPENDENCE OF THINGS IN THE ENVIRONT**	**Interdependence of living things and non-living things**	❖ Animals depend on non-living things; ▪ Air ▪ Water ▪ Soil ▪ Sun ❖ Plants depend on non-living things; ▪ Air ▪ Water ▪ Soil ▪ Sun	The learner; Describes how living things and non-living things benefit from each other	The learner; Reads words and sentences about component of the environment	Guided discovery Observation Inquiry Explanation	Critical thinking Fluency Concern Responsibility	Describing the ways living and non-living components of the environment benefit from each other	The natural environment Chalkboard illustrations	P7 curriculum pg. 87 MK Int. Pri Sci Bk 7 pg. 150 – 155	
	4		**INTERDEPENDENCE OF THINGS IN THE ENVIRONT**	**Agro forestry**	❖ Growing trees and crops together ❖ Rearing animals and growing crops on the same farm (**mixed farming**) ❖ Rearing and caring for animals. ❖ Importance of agro forestry	The learner; Discusses the importance of agro forestry in the environment	The learner; Reads and writes words and sentences about agro forestry	Guided discovery Field visits Explanation Question and answer	Problem solving Empathy Decision making Sharing Concern	Discussing the advantages of growing crops and trees together Discussing the importance of agro forestry	Chalkboard illustration School garden Natural environment	P7 curriculum pg. 88 MK Int. Pri Sci Bk 7 pg. 157 – 159	
	5		**INTERDEPENDENCE OF THINGS IN THE ENVIRONT**	**Agro forestry**	▪ Caring for trees and crops in agro forestry ✓ Pruning ✓ Weeding ✓ Fencing ✓ Staking ✓ Pest and disease control ▪ Proper harvesting of trees in agro forestry ▪ Caring for animals	The learner; Describes the ways of caring for trees, crops and animals in agro forestry	The learner; Practices the correct ways of harvesting trees in agro forestry	Demonstration Guided discovery Multi-grade approach Question and answer	Effective communication Responsibility Creative thinking	Describing ways of caring for trees, crops and animals in agro forestry Practicing the correct ways of harvesting trees in agro forestry	School garden Trees on the school compound Chalkboard illustrations	P7 curriculum pg. 88 MK Int. Pri Sci Bk 7 pg. 160 – 162	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIES	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
1	**6**	**THE ENVIRONMENT**	**NTERDEPENDENCE OF THINGS IN THE ENVIRONT**	**Starting and managing a school/home woodlot project**	❖ Definition of woodlot ❖ Factors considered when starting a woodlot project ❖ Activities involved in setting woodlot ▪ Clearing the land ▪ Selecting trees for planting ▪ Setting a nursery bed ❖ Managing the project ❖ Record keeping	The learner; Starts and manages a school/home woodlot project	The learner; Describes how to start and manage a school/home woodlot project	Demonstration Project work Guided discovery Question and answer	Effective communication Self-awareness Problem solving Sharing Concern	Starting and managing a school/home woodlot project Explaining the importance of record keeping	Tree seeds/seedlings The necessary garden tools A well prepared guide on how to start and manage school/home woodlot project Draft records	P7 curriculum pg. 88 MK Int. Pri Sci Bk 7 pg. 163 – 164	
2	**1**	**THE COMMUNITY, POPULATION & FAMILY LIFE**	**POPULATION AND HEALTH**	**Community health and social problems**	Outbreak of diseases ❖ Types of common sicknesses in a home ❖ Causes of common sicknesses in a home ❖ Controlling common sicknesses in a home and community	The learner; Describes the common sicknesses, their causes and ways of avoiding Them	The learner; Acts dialogue on ways of controlling common sicknesses in a home and the community	Demonstration Discussion Guided discovery Question and answer	Problem solving Effective communication Self-awareness responsibility	Describing causes of common sicknesses in a home and the community Demonstrating ways of controlling common sicknesses	Chalkboard illustrations Posters having ways of avoiding common sicknesses Sentence cards	P7 curriculum pg. 91 MK Int. Pri Sci Bk 7 pg. 171 – 173	
	2		**POPULATION AND HEALTH**	**Community health and social problems**	❖ Poor food supply ❖ Poor water supply ❖ Diseases associated with poor water supply ✓ Water borne diseases ✓ Water cleaned diseases ✓ Water habitat vector diseases ✓ Water contact diseases	The learner; Describes the community health problems	The learner; Acts dialogue on activities to address different health concerns	Demonstration Explanation Multi-grade approach Guided discovery Discussion	Self-awareness Problem solving Creative thinking Appreciation Concern	Describing the community health problems Acting dialogues on activities to address different health concerns	Chalkboard illustration Poems on different health problems	P7 curriculum pg. 91 MK Int. Pri Sci Bk 7 pg. 174	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIES	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
3	**3**	**THE COMMUNITY, POPULATION & FAMILY LIFE**	**POPULATION AND HEALTH**	**Community health and social problems**	❖ Poor sanitation • Signs of poor sanitation in a home and community • Effects of poor sanitation to human health ❖ Activities to address poor sanitation	The learner; Discusses the signs and effects of poor sanitation to homes and the communit Y	The learner; Reads and writes words and sentences about the effects of poor sanitation	Discussion Question and answer Guided discovery Explanation Inquiry	Critical thinking Responsibility Problem solving Effective communication	Discussing the effects of poor sanitation to homes and the community Participating in the activities to address poor sanitation in a home and the community	Items for promoting sanitation Chalkboard illustration Campaign posters against poor garbage management	P7 curriculum pg. 91 MK Int. Pri Sci Bk 7 pg. 173 – 174	
	4		**POPULATION AND HEALTH**	**Anti-social behaviour**	• What anti-social behaviour is • Examples of anti-social behaviour • Causes of anti-social behaviour • Effects of anti-social behaviour • Ways of controlling ant-social behaviour	The learner; States the examples of anti-social behaviour Discusses the effects of anti-social behaviour	The learner; Describes ways of avoiding anti-social behaviour	Guided discovery Question and answer Discussion Explanation Multi-grade approach	Effective communication Creative thinking Self-awareness Problem solving	Stating the examples and causes of anti-social behaviour Discussing the effects of anti-social behaviour Describing ways of avoiding ant-social behaviour	Chalkboard illustration Campaign messages against anti-social behaviour	P7 curriculum pg. 91 MK Int. Pri Sci Bk 7 pg. 175 – 178	
	5		**POPULATION AND HEALTH**	**Sexual deviations**	➢ What sexual deviations are ✓ Bestiality ✓ Homosexuality ✓ Masturbation ✓ Oral sex ✓ Lesbianism ✓ Incest ➢ Ways of avoiding sexual deviations	The learner; Discusses the dangers of sexual deviations Describes ways of avoiding sexual deviations	The learner; Recites poems on ways of avoiding sexual deviations Writes brief sentences about sexual deviations	Discussion Guided discovery Observation Explanation Question and answer	Critical thinking Self-awareness Care Responsibility	Discussing the dangers of sexual deviations Describing ways of avoiding sexual deviations	Posters and cards carrying messages about sexual deviations, their dangers and ways of avoiding them Chalkboard illustrations	P7 curriculum pg. 91 MK Int. Pri Sci Bk 7 pg. 179 – 181	

WK	PD	THEME	TOPIC	SUBTOPIC	CONTENT	COMPETENCES		METHODS & TECHNIQUES	LIFE SKILLS & VALUES	SUGGESTED ACTIVITIES	INSTRUCTIONAL MATERIALS	REFERENCES	REM
						SUBJECT	LANGUAGE						
3	**6**	**THE COMMUNITY, POPULATION & FAMILY LIFE**	**POPULATION AND HEALTH**	**Activities to address health concerns**	▪ Health survey ▪ Health parades ▪ Health education ▪ Immunisation ▪ Sex education	The learner; Demonstrates some of the activities to address health concerns of the community	The learner; Discusses the importance of the activities carried out to address health concerns of the community	Explanation Demonstration Multi-grade approach Question and answer	Effective communication Problem solving Self-awareness Responsibility	Demonstrating some of the activities to address health concerns Discussing the importance of different activities for addressing health concerns	Posters carrying health messages Chalkboard illustrations Items for promoting personal hygiene and sanitation	P7 curriculum pg. 91 – 92 MK Int. Pri Sci Bk 7 pg. 181 – 184	
4	**1**		**POPULATION AND HEALTH**	**Demography**	▪ Housing information - Types of houses people live in - Family hygiene ▪ Available health services - Immunisation - Family planning - Antenatal care ▪ Importance of demography	The learner; Collects information/data on human population and health in the community	The learner; Writes information/data on human population and health in the community	Demonstration Observation Guided discovery Use of questionnaires	Effective communication Creative thinking Acceptance Concern care	Collecting information/data on human population and health of homes and the community	Data collected on human population and health of homes and the community Chalkboard illustrations Questionnaires	P7 curriculum pg. 92 MK Int. Pri Sci Bk 7 pg. 185 – 186	
	2		**POPULATION AND HEALTH**	**Activities of Health clubs**	❖ A school health club ❖ Village health team ❖ Activities of health clubs	The learner; Demonstrates the activities of health clubs in school, home and community	The learner; Reads and writes words and sentences about activities of health clubs	Demonstration Observation Guided discovery Question and answer Explanations	Problem solving Self-awareness Concern Appreciation	Participating in and demonstrating activities of health clubs	Posters carrying health messages Chalkboard illustration Cleaning tools and items	P7 curriculum pg. 92 MK Int. Pri Sci Bk 7 pg. 190	

SPELLING ACTIVITIES FOR TERM THREE

TOPIC 7: INTERDEPENDENCE OF THINGS IN THE ENVIRONMENT

- interdependence
- dependence
- food chain
- producer
- consumer
- primary
- secondary
- tertiary
- herbivore
- carnivore
- decomposer
- agro forestry
- pollarding
- lopping
- coppicing
- welfare
- rearing
- caring
- woodlot

TOPIC 8: POPULATION AND HEALTH

- community
- population
- Health concerns
- Water borne
- Anti-social behaviour
- Sexual deviations
- bestiality
- homosexuality
- incest
- masturbation
- lesbianism
- survey
- Health parade
- Demography
- Data
- Health clubs