

SCHEME OF WORK FOR P.4 SCIENCE TERM I

WK	PD	THEME	SUB-THEME	CONTENT	COMPETENCES	METHODS	ACTIVITY	LIFE SKILLS AND VALUES	INSTRUCTIONAL MATERIALS	REF
1	1	WORLD OF LIVING THINGS	PLANT LIFE	<u>Types of plants</u> - Flowering plants - Non flowering plants. <u>Flowering plants</u> - Definition. - Examples of flowering plants - Parts of a flowering plant. - Functions of each part. - Systems of a flowering plant <u>Main parts of a flowering plant</u> - Leaves - Structure - Uses of leaves. - Types of leaves. - Leaf venation <u>Process in leaves</u> - Photosynthesis - Transpiration	<u>Language competence</u> The learner: - Spells the words correctly. - Pronounce the given words correctly. Subject competences The learner: - States the types of plants. - Name the parts of a flowering plant. - Discusses the functions of parts of a flowering plant. <u>Subject competences</u> The learner: - States the type of stems - Describes the functions of stems and roots. - States the uses of flowers to man and plants to plants and man	-Guided discovery -Discussion -Demonstration -Question and answer. -Explanation - Observation	-Note taking -Drawing -Naming	Critical thinking. Problem solving. Decision making. Effective communication Appreciation	- Prepared chart. - Leaves. - flowers	Comp. Science Pupils book 4. MK integrated scie pupils bk 4

				2. Stems - Types of stems. - Function of the stem. - Ways (methods) how weak stems climb others. 3. Roots - Describe roots. - Functions of roots. - Types of roots. 4. Flowers - Definition - The structure - Functions of parts of a flower. - Uses of a flower to man and plants. <u>Pollination</u> • Definition. • Types of pollination. • Agents of pollination. • Characteristics of wind and insect pollinated flowers. <u>Fertilization</u> • Definition. • Where it takes place in a flower. • Reproductive parts of a	<u>Language competence</u> The learner:- • Pronounces the words correctly. • Spells the given words correctly. <u>Subject competences</u> The learner: • Defines fertilization. • Identifies the reproductive parts of a flower. • Draws different structures of flowers • Identifies the male and female parts of a flower • Defines what a flower is <u>Language competences</u> The learner: • Pronounces the given words correctly. • Spells' and writes the words correctly. • Make correct sentences					
--	--	--	--	---	--	--	--	--	--	--

				flower. *Pistil *stamen Seeds • Definition • Structure of seeds • Types / classes / groups of seeds. • Functions of seeds. • Difference between a seed and a fruit. Germination • Definition • Types of germination. • Conditions necessary for germination.	using the given words.						Mk intergrated Pri Sci BK 4 Pg 7 - 8
--	--	--	--	---	------------------------	--	--	--	--	--	---

		WORLD OF LIVING THINGS	GROWING CROPS	<u>Crops</u> - Definition - Common crops grown *Maize *Sorghum *Peas, etc <u>Groups of crops</u> - Perennial crops. - Annual crops. - Definition and examples of the above groups of crops. <u>Garden tools</u> - Examples - Uses of each garden tool. - Caring for the garden tools. <u>Crop growing practices</u> <u>Land preparation</u> - Tools used. - Activities involved in land preparation. - When land is prepared (season) <u>Planting materials selection.</u> - Why it is done? - Qualities of a good planting material (viable seeds) - How different crops are planted (propagation) <u>Planting</u> - Methods / ways of planting. - Description of the methods	<u>Subject competences</u> The learner:- - Identifies common crops grown. - States the groups of crops and explains each. - Identifies garden tools and their uses. <u>Language competences.</u> The learner: - Spells, pronounce, reads and write given words correctly. <u>Subject competences</u> The learner:- - Identifies tools used in land preparation. - Describes how different crops are propagated or planted. - Identifies methods of planting. <u>Language competences</u> The learner:- - Pronounces, spells, reads, writes and makes sentences using the given words.	-Question and answer. -Discovery -Inquiry Demonstration Observation	-Answering question -Writing -Demonstration	-Awareness -Creative thinking -Care Responsibility	- Real objects (plants) - A chart with garden tools.	
--	--	-------------------------------	----------------------	---	---	--	--	--	---	--

		WORLD OF LIVING THINGS	GROWING CROPS	- Staking - Gap fitting <u>Pests and disease control</u> - Definition of pests. - Examples of pests. - Effects of pests and diseases. - Diseases of some crops. - Signs of diseases. - Ways of controlling pests and diseases to plants <u>Harvesting</u> - Definition - When to harvest and why? - Tools used in harvesting. <u>Food preservation</u> - Definition - Methods of preserving food. - Reasons for preserving food <u>Storage</u> - Examples of storage pests. - Types of stores. - Qualities of a good store.	<u>Subject competences</u> The learner:- - Defines a pest. - Gives examples of pests. - Discusses ways of controlling pests and disease. <u>Language competences</u> The learner: - Pronounces, spells, reads the given words correctly. <u>Subject competences</u> The learner:- - Identifies examples of storage pests. - States the types of stores. - States reason for preserving food. <u>Language competences</u> The learner:- - Pronounces, spells the words correctly.	Discussion. Explanation.	Defining. Writing. Reading	Responsibility Concern. Honesty. Care		
--	--	---------------------------------	---------------	---	--	--	---	---	--	--

		OUR ENVIRONMENT	Weather changes around us. - Definition of weather and climate - Types of weather. - Elements of weather / factors - Weather struments - Structures of weather instruments.	<u>Subjects</u> The learner:- - Describes the changes in weather. - Makes accurate measurements of rainfall. - Uses thermometer to measure temperature.	-Group work. -Guided discovery. -Question and answer. -Guided discussion.	Answering both oral and written questions.	-Effective communication -Critical thinking -Creative thinking. -Problem solving.	Weather chart. Clinical thermometer A chart showing clinical thermometer.	Comprehensive book four pg. Mk.scie Bk 4 Integrated Bk. 4.
		OUR ENVIRONMENT	Weather changes around us. <u>.Types of rainfall.</u> - Formation of rain/ water cycle - Advantages of rain and disadvantages. <u>Sunshine</u> - Advantages and dangers of sunshine. <u>Cloud cover</u> - Types of clouds and their characteristics. - Advantages of clouds. <u>Wind</u> - Definition. - Instrument used to measure.	- Draws a simple weather chart. - Describes an experiment to show how rain is formed - Names the parts of thermometer. Languages. The learner:- - Explains orally the water cycle. - Pronounce, spell and write parts of a clinical thermometer. - Defines evaporation - Defines condensation - Defines transpiration			-Self awareness. -Prediction		

				- Advantages of wind. <u>Humidity:</u> - Definition. - Instrument used to measure. - Advantages of humidity. <u>Atmospheric pressure</u> - Definition. - Causes. - Instrument used. <u>Temperature</u> - Definition - Instrument used - Types of thermometer. (a) <u>Clinical thermometer.</u> - Structure. - Liquid used and reasons - Advantages of using mercury - Normal human body temperature of Celsius and Fahrenheit scale. both scales.						
--	--	--	--	---	--	--	--	--	--	--

				(b) <u>Minimum and maximum thermometer.</u> - Structure.						
	3 4	HUMAN HEALTH	Personal Hygiene	<u>Personal hygiene.</u> • Definition. • Ways of keeping our body clean. • Items used in keeping our bodies clean. • Things used to keep our bodies clean. e.g - Towels - Soap - Razorblade - Water - Comb - Brushes • Importance of keeping our bodies clean. * Remove germs. * Remove dirt. * Avoid bad smell. * Keep health. * Be smart.	<u>Subject:</u> The learner should be able to:- • Define personal hygiene. • State ways of keeping our bodies clean. • Give the importance of personal hygiene. • Demonstrate clean body activities. <u>Language.</u> • Spell the words correctly. • Pronounce the words correctly. • Write the words in correct spelling.	-Discussion. -Discovey -Demonstration -Observation Question and answer.	-Combing hair. -Brushing teeth. -Washing the face. -Cutting finger nails short.	-Appreciation. -Caring. - Responsibility -Self esteem - Assertiveness Concern	- Comb - Water - Tooth paste. - Tooth brush. - Nail cutters.	MK. Intergrated primary Science Bk.

SCHEME OF WORK FOR P.4 SCIENCE TERM II

WK	PD	THEME	SUB-THEME	CONTENT	COMPETENCES	METHODS	ACTIVITY	LIFE SKILLS AND VALUES	INSTRUCTIONAL MATERIALS	REF
1	1	HUMAN HEALTH	OUR FOOD	<u>OUR FOOD</u> - Definition: *Food *Feeding *Nutrition <u>Sources of food</u> *Super markets *Markets *Shops *Gardens - Forest - Why we eat food. (5Hs) - Uses of food in the body. - Balanced diet. *Definition *Components of balanced diet (classes of food) - Sources of food values. Carbohydrates:	<u>Subject:</u> - Defines *Food *Feeding *Nutrition *Balanced diet *Deficiency diseases - States why we eat food?. - Gives some sources of food. - Mentions some of the components of balanced diet. <u>Language</u> - Pronouncers, spell,s writes and reads words and sentences correctly. <u>Language competence</u> The learner:- - Pronounces the words	-Guided discovery -Group discussion. -Think pair share.	- Note making. - Collecting food sources of food values. -Grouping them according to food values. -Drawing and painting different food stuffs.	-Appreciation. -Care -Love Responsibility	Real objects (food stuffs)	Comp. Science bk 4. Pg. MK integrated scie pupils bk 4 Pg.

				Vitamins Proteins <u>Deficiency disease etc.</u> • Definition • Examples • Causes • Sign of symptoms of each disease. • Prevention. • Ways in which food gets contaminated, bad feeding habits. • Prevention of food contamination. • Preparation of simple dishes locally.	correctly. • Spells the given words correctly.					
			HUMAN BODY ORGAN	<u>Major body organ</u> • Definition - Organ. • Examples of major body organs. * Eyes * Brain * Ears * Stomach	<u>Subject:</u> - Identifies different body organs. - Defines: Organ. - States ways of caring for our body organs. - Draws and labels body organs.	-Discussion -Guided discovery. -Question and answer. -	• Singing a song. • Note making. • Drawing. • Answering both oral and written questions.	-Selfawareness -Responsibility Confidence -Fluency. -Effective communicatio	- Chart showing body organs.	

				* Nose * Bladder * Heart * Lungs * Liver * Tongue. - Kidneyd • Structure showing location of each body organ. • Structure of each part and function. • Diseases and disorders. • Care for each body organ.	Language: - Reads, pronounces, spells and writes words correctly. - Answers simple comprehension questions correctly.	Demonstration.		n -Creative thinking -Critical thinking.		
		HUMAN BODY	THE TEETH	<u>TEETH</u> • Sets of teeth. • Types of teeth and their uses. • The tooth structure. • Functions of the internal parts of the tooth. • Regions of the tooth. • Diseases and disorders of the teeth. • How to care for the teeth.	<u>Subject</u> The learner:- • Identifies sets of teeth. • Describes the different types of teeth and their functions. • Draws different types of teeth with correct labeling. <u>Languages</u> • Reads, writes, pronounces words and sentences correctly.	-Discussion. -Question and answer. -Group work. Guided discovery.	• Matching types of teeth to diagrams. • Drawing and labeling teeth structures. • Practicing brushing of teeth. • Answering oral and written questions.	-Effective communication. -Self awareness. -Critical thinking. -Problem solving. -Decision making. - Confidence -Care -Acceptance	-A chart showing different types of teeth.	- Comprehe nsive scie Bk. 4 pg. 151 – 164. - Intergrated scie. Bk. 4 pg. 112 – 118. - Fountain scie. Bk. 4 pg 119 - 129

		HUMAN HEALTH	SANITATION	• Definition - Its elements (activities) • Importance of good sanitation. • Germs and diseases - Definition - Where they are found. - Types of germs - How they are spread. - Dangers of germs. - The germ cycle (4Fs). • Rotting - Definition - Importance of rotting - Causes of rotting. - Dangers of rotting. • Ways of protecting against germs and diseases in our environment.	Subject The learner:- • Identifies sanitation concerns. • Draws diagrams on transmission of germs (germ path). • Carries out activities of keeping the environment clean. • Defines rotting Language • Spells, write and pronounce words correctly.	-Discussion - Demonstration. -Question and answer. -Guided discovery.	-Drawing the germ path. -Answering oral and written questions. -Demonstrating way of keeping classroom clean.	-Self esteem. Effective communication. -Critical thinking. -Problem solving. -Care -Love -Respect. appreciation	• Brooms. • Dustbin • Water • Plates • Prepared charts.	Comp. scie BK. 4. Integrated Scie. Bk.4 MK. Bk. 4 pupils scie.
--	--	--------------	------------	--	---	---	--	---	---	---

SCHEME OF WORK FOR P.4 SCIENCE TERM III

WK	PD	THEME	SUB-THEME	CONTENT	COMPETENCES	METHODS	ACTIVITY	LIFE SKILLS AND VALUES	INSTRUCTIONAL MATERIALS	REF
		COMMUNICABLE DISEASES AND WORM INFESTATION	Diarrheal diseases or faecal diseases	- Definition of Diarrhoea. - Examples of diarrhoeal diseases. - Causes - The 4Fs - Prevention. - Dehydration (Definition) - Its causes - Signs (Use of ORS) - Solutes - Solvent - Solution - Rehydration (Definition) - Preparation of ORS and SSS.	- Identifies diarrheal diseases. - Describes the spread of the above diseases. - Demonstrates the preparation of ORS and SSS. - Draw the structure of a tape worm. - Tell how tape worms enter our bodies. - Defines dehydration - Defines rehydration	-Demonstration -Discussion -Guided discovery -Question and answer	-Note making -Preparing ORS and SSS -Cleaning the toilet or latrines -Boiling water - Making SSS	-Critical thinking -Problem solving -Decision making -Self awareness	- Water - Sugar - Salt - Spoons - Chart showing the 4Fs	Mk integrated Pri Sci Bk 4 Pg 124 Functional intergrated Pri Sci for Ug Pg 180
2	1	HUMAN HEALTH	VECTORS AND DISEASES	<u>Common Vectors</u> - Definition of vectors - Examples of common vectors - Cockroaches - Ticks - Bedbugs - House flies - Mites - Rats - Lice - Mosquitoes - Tsetse flies	The learners:- - Defines vectors - Identifies some common disease vectors	-Guided discovery -Question and answer Discussion. Observation	- Naming - Drawing - Answering questions Match	- Awareness - Care Responsibility -Self	- A chart with some vectors. - Real vectors like cockroaches	

				* Life cycle of vectors * <u>Diseases spread by each vector</u> • Body structure • Their habitat • Their feeding habits • Their life cycles • How they protect themselves from enemies <u>How vectors spread diseases.</u> • Through bites of infected animals • Through contaminated food • Through contaminated air • Through open wounds • Through infected insect bites <u>Prevention and control</u> • Proper hygiene • Covering food. • Spraying • Biological control. • Sleeping under a treated mosquito net.	• Describes characteristics of some disease vectors.	Field Study		awareness -Decision making Taking Decision Sharing Appreciation Effective communication		
--	--	--	--	--	--	-------------	--	--	--	--

		HUMAN HEALTH	Accidents poisoning and first Aid	<u>Accidents</u> • Definition • Types of accidents • Causes of accidents • Prevention of accidents <u>First Aid</u> • Definition • Reasons for giving first aid. • Responsibilities of a first aider. • Qualities of a first aider. • First aid kit (box) • How to use a first aid kit. • Components of the first and kit and uses. • Places where we find first aid box	The learner:- - Names common accidents and poisoning at home, on the way to, from and at school. - States causes of accidents and poisoning. - Demonstrates how to take care of one who has taken poison. <u>Language</u> - Talks about common accidents. - Reads and writes words, sentences and stories about accidents.	-Guided discussion -Group work. Demonstration.	• Collecting first aid items. • Making a first aid box. • Demonstrating how to give first aid.	-Critical thinking. -Problem solving -Coping with stress. -Care Sympathy - Responsibility	-Real first aid materials. - Chart showing common accidents.	Mk intergrated Prim Sci Bk 4 Pg 154
		WORLD OF LIVING THINGS	Animal life (Rabbits)	<u>Definition of terms</u> • Rabbitory • Rabbit keeping <u>External parts of a rabbit</u>	<u>Subject</u> • Defines new terms. • Names external parts of a rabbit. • Names breeds of rabbits. • Lists examples of exotic	Guided discovery Discussion	• Drawing. • Note taking • Answering oral and written questions.	-Effective communication. -Critical thinking. -Creative	-Prepared chart	Mk Intergrated Prim Bk 4 Pg 180

				Breeds of rabbits • Local • - Exotic • Examples of exotic breeds. Importance / uses of rabbits. • Advantages of keeping rabbits over other animals. • Housing in rabbits. • Management practices. • Diseases of rabbits and their control. • Keeping farm records.	breeds. • Explains the uses of rabbits • Describes the habitat for rabbits • Demonstrates skills in keeping rabbits. • Names diseases of rabbits and their control. • Signs of a sick rabbit • Requirements of starting a rabbitary farm	Demonstration Question and answer. Group work field trip.		thinking. -Decision making -Problem solving. -Appreciation - Patience -Care -Fluency		
--	--	--	--	---	--	--	--	---	--	--

		HUMAN HEALTH	Road traffic accidents, sprains, strains, bruises wounds • Definition of road accidents. • Causes of road traffic accidents. • How to cross the road e.g. from zebra crossing. • How to prevent road traffic accidents. Injuries / Fractures <u>Types of injuries.</u> • Fractures (types and their first aid) • Sprains and strains (their first aid). • Dis location and its first aid. • Bruises and their first aid. • Blisters and their first aid. • Wounds and their first aid.	Subject competences The learner - Names causes of road accidents - Name road users - Demonstrates how to cross a busy road. Language - Talks about common injuries. - Reads , poems , posters about accidents					
			Accidents, poisoning and First Aid • Definition of • Poison • Poisoning - Common poisons in our homes. - Causes of poisoning. - Signs of poisoning - First aid - How to prevent poisoning.						

