

SMART STAR EXAMINATIONS BOARD

PRIMARY SIX SCHEME OF WORK

TERM: Term one

YEAR: 2025

SUBJECT: Integrated science

W K	P D	T H E M E	T O P I C	SUB TOPIC	COMPETENCES		CONTENT	METHODS	ACTIVITI ES	L/T AIDS	LIFE SKILLS AND VALUES	RE F.	R E M .	
					SUB.	LANG.								
1	2	0	T H E W O R L D O F	C L A S S I F I C A T I O N O F	Verteb rates (warm bloode d verteb rates)	The learner; • identifies examples of living things • mentions characterist ics of living things • gives groups of living things • mentions groups of animals • identifies vertebrates and invertebrate s	The learner; • reads and spells words about vertebrates correctly e.g. ✓ poikilotherm ic ✓ homoiother mic ✓ homeotherm ic ✓ marsupials ✓ monotremes ✓ cetaceans	• Definition of living things • Examples of living things • Characteristics of living things • Groups of living things • Groups of animals • vertebrates and invertebrates • Characteristic of vertebrates • Groups of	• Observation • Guided discussion • Guided discovery	•Observing different vertebrates •Identifying examples of living things •Identifying groups of living things •Identifying vertebrates and invertebrat es from pictures of animals	•Presentat ion showing different vertebrat es	Life skills 1. Effective communic ation -Fluency in reading words -Audibility -Confidence -Articulation of words -Accuracy in spelling words Values • Cooperation •Appreciation	Com prehe nsive Prim ary Sch. Scien ce Bk6 Pg3- 21 Unde rstan ding Integ rated Scien ce Bk 6 Pg 3- 23	

L I V I N G T H I N G S	L I V I N G T H I N G S	Mammals	<ul style="list-style-type: none">• gives characteristics of vertebrates• identifies groups of vertebrates• states the characteristics of mammals	<ul style="list-style-type: none">• writes words and sentences about vertebrates correctly	<div>vertebrates</div> <ul style="list-style-type: none">• Characteristics of mammals• Groups of mammals	<ul style="list-style-type: none">• Observation• Guided discussion	<ul style="list-style-type: none">• Observing pictures and video slides of different mammals and birds• Identifying groups of mammals	<ul style="list-style-type: none">• Presentation showing different mammals		Functional Primary Sci Pg 8-21	New Biology for Tropical Schools Pg 57-63
		Birds	<ul style="list-style-type: none">• gives the characteristics of birds• describes the groups of birds• states the importance and dangers of birds in the environment		<ul style="list-style-type: none">• Characteristics of birds• Groups of birds• Importance and dangers of birds in the environment		<ul style="list-style-type: none">• Identifying and classifying birds in various groups				
		Cold blooded vertebrates	The learner; <ul style="list-style-type: none">• Observes different cold blooded	The learner; <ul style="list-style-type: none">• reads and spells words like amphibians, reptile,	<ul style="list-style-type: none">• Groups of cold blooded vertebrates	<ul style="list-style-type: none">• Observation• Guided discovery	<ul style="list-style-type: none">• Observing cold blooded vertebrates	<ul style="list-style-type: none">• Video slides showing different reptiles and	Life skill Creative thinking ✓ Logical reasoning ✓ Critical	Compre. Pri. Sci Bk 6 Pg. 21 –	

				Invertebrates Arthropods Molluscs worms	The learner; •States the characteristics of invertebrates •Mentions the groups of invertebrates •Describes the different groups of invertebrates •Identifies similarities and differences among different groups of invertebrates	The learner; •reads and spells words correctly about invertebrates e.g. ✓ Arthropods ✓ Myriapods ✓ Crustaceans ✓ Arachnids • Molluscs	•invertebrates •Groups of invertebrates •Characteristics and examples of different groups of invertebrates	• Guided discovery • Guided discussion	•Naming the groups of invertebrates •Observing specimens of different invertebrates •Drawing life cycles of different insects •Identifying differences and similarities in lifecycles	• Pictures of some invertebrates • Specimens of invertebrates i.e.insects, millipedes. • Charts showing life cycles of insects	Life skill • Creative thinking ✓ Logical reasoning • Critical thinking ✓ Responding to question Values ✓ Cooperation ✓ sharing	Comprehensive pri. Sch. Bk6 Pg36-48 Introduction to biology Pg 224-228 Pg 146-156	
4	T		S	S	The learner; •identifies the sources of sound •describes how sound is produced and how it travels in different materials •states the properties of sound	The learner; •reads and spells words about sound correctly i.e. ✓ Pitch ✓ Amplitude ✓ Percussion ✓ Vibration ✓ Frequency •writes words and sentences about sound correctly	• Definition of sound • Sources of sound •How sound is produced and how it travels in different materials • Properties of sound • Speed of sound in solids, liquids and gases	•Guided discussion •Guided discovery •Experimentation	•Listening to sound produced in the environment •identifying different sources of sound from the environment	drums, tube fiddle, bow harp, bottles, water	Life skills • Effective communication -fluency -articulation -accuracy Values -care -sharing Process skill Observation	Comprehensive Pri. Sch. Bk 6 Pg 58-68 Abbot physics Pg 312-320	

				Pitch Volume frequency	<ul style="list-style-type: none">describes pitch, volume and frequency of sounddescribes how different musical instruments produce sound		<ul style="list-style-type: none">Pitch, volume and frequency of soundMusical instruments.	<ul style="list-style-type: none">DemonstrationObservation	<ul style="list-style-type: none">Carrying out experiments on sound as a form of energy and how it is producedExperiments on pitch, volume and frequency of sound.	<ul style="list-style-type: none">BellBow harpThumb piano	Life skills <ul style="list-style-type: none">Effective communication-fluency-articulation-accuracy Values <ul style="list-style-type: none">-care-sharing-Observation-Logical reasoning	Understanding integrated scibk 6 Pg24 -35 Functional pri. Sci. bk6 Pg24 -35
				Echoes	The learner; <ul style="list-style-type: none">describes echoesStates the uses and dangers of echoesStates ways of controlling echoesCalculates distance, speed and time in soundstoring and reproducing sound	The learner; <ul style="list-style-type: none">reads and writes sentences about echoes correctly	<ul style="list-style-type: none">EchoUses of echoesDangers of echoesHow echoes are controlled.Calculating distance, speed and time in soundWays of storing and reproducing sound	<ul style="list-style-type: none">Guided discussionExperimentationGuided discovery	Giving ways of controlling echoes Playing stored sound on a CD player Calculating the speed of sound <ul style="list-style-type: none">Naming devices used to store and reproduce sound	<ul style="list-style-type: none">Soft boardCurtainsCD playerCDsMemory card		Mk integrated pri. Sci. bk6 Pg 36-44 Compre. Pri. Sch. Sci. bk6 Pg 312-320 Functional pri sci.

				The mammalian ear	The learner; <ul style="list-style-type: none"> • Observes parts of the human hear. • draws the structure of the mammalian ear • states the functions of the parts of the ear • describes the hearing process • gives the ear defects and how to care for the ear 	The learner; <ul style="list-style-type: none"> • reads and spells words about the ear correctly e.g. ✓ Eustachian tube ✓ Auditory canal ✓ Cochlea • reads and writes sentences about the ear correctly 	<ul style="list-style-type: none"> • Structure of the mammalian ear • Functions of the parts of mammalian ear • The hearing process • Ear defects and ways of caring for the ear 	<ul style="list-style-type: none"> • observation • Guided discussion 	<ul style="list-style-type: none"> • Identifying parts of the human ear • Naming parts of the mammalian ear • Observing and listening to the video showing the hearing process. 	<ul style="list-style-type: none"> • Model of human ear. • Chart showing the structure of the mammalian ear. • Presentation showing the hearing process. 	Life skills <ul style="list-style-type: none"> • Self awareness • Self identification • Self evaluation • Creative thinking • Logical/ Reasoning Values <ul style="list-style-type: none"> • Appreciation care 	bk6 pg 68-69 Introduction to biology pg 134-135 Comprehensive prisc hsci bk6 pg66-68 Functional pri. Scibk 6 pg 69-72	
			C I R C U L A T O R Y	The Heart	The learner: <ul style="list-style-type: none"> • Defines blood circulation • Identifies the component of the circulatory system • draws the structure of the heart • describes 	The learner; <ul style="list-style-type: none"> • reads and spells words about the circulatory system correctly ✓ Circulation ✓ Aorta ✓ Valve ✓ Bicuspid ✓ Tricuspid 	<ul style="list-style-type: none"> • Definition of blood circulation • Components of the circulatory system • Structure of the heart • How the heart works • Blood circulation in 	Demonstration Guided discovery	<ul style="list-style-type: none"> • Drawing the structure of the circulatory system • identifying components of the circulatory system 	<ul style="list-style-type: none"> • Model of the heart. • Chart showing the parts of the heart. • Presentation showing 	Life skills <ul style="list-style-type: none"> • Self awareness • Self identification • Self evaluation • Creative thinking • Logical/ Reasoning 	New tropical biology pg 162-169 Comprehensive pri. Sch science bk5 Pg105-113 Under	

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7 T o 8					Blood vessels <ul style="list-style-type: none"> • The learner; Identifies examples of the blood vessels • draws diagrams showing arteries, veins and capillaries • identifies the major blood vessels in the body 	The learner; <ul style="list-style-type: none"> • reads and spells words about blood vessels correctly e.g. ✓Lumen ✓Carotid ✓Jugular vein ✓Mesenteric • reads and writes sentences about blood correctly 	<ul style="list-style-type: none"> • Blood vessels • Structures of different blood vessels • Differences between veins and arteries • Major blood vessels in the body 	<ul style="list-style-type: none"> • Guided discovery <p>Observation</p>	<ul style="list-style-type: none"> • Naming the blood vessels • Drawing diagrams showing the blood vessels • Differentiating between a vein and an artery 	<p>Chart showing an artery, Vein & capillaries</p>	Life skills <ul style="list-style-type: none"> • Critical thinking • Responding to questions appropriately • Taking decision 	<p>Introduction to biology Pg 93-100 Understanding integrated science bk6 Pg155-156. new tropical biology pg162-169.</p>
				Diseases And Disorders of the Circulatory system	The learner; <ul style="list-style-type: none"> • Observes affected blood cells • describes the diseases and disorders of the circulatory system • suggests ways of preventing and controlling 	The learner; <ul style="list-style-type: none"> • reads and spells words about the diseases e.g. circulatory system correctly ✓Leukaemia ✓Heomophilia ✓Anaemia • reads and writes sentences about the diseases of the 	<ul style="list-style-type: none"> • Diseases and disorders of the circulatory system • Ways of preventing and controlling the diseases of the circulatory system • Ways of maintaining proper functioning of the circulatory system. 	<p>Guided discussion</p> <p>Observation</p>	<ul style="list-style-type: none"> • Observing affected blood cells. • Identifying the diseases and disorders of the circulatory system 	<ul style="list-style-type: none"> • A video presentation showing blood cells affected by sickle cell, anaemia and leukemia. • A chart showing blood cells 	Empathy <ul style="list-style-type: none"> • Caring • Comforting • Listening to others Values <ul style="list-style-type: none"> • care • concern • self reliance 	<p>Comprehensive pri. Sch Sci bk5 Pg 105-113 Mk integrated science bk6</p>

					diseases and disorders of the circulatory system	circulatory system correctly				affected by sickle cell, anaemia		Pg 218-226	
9 T o 1 0		H u m a n H e a l t h	A l c o h o l S m o k i n g A n d D r u g s	Alcohol in the Society	The learner; <ul style="list-style-type: none"> States what alcohol is. describes the methods of making alcohol Describes alcoholism <ul style="list-style-type: none"> states reasons why people take alcohol describes the effects of alcoholism to an individual, family and community suggests ways of avoiding alcoholism gives the types of smoking gives reasons for 	The learner; <ul style="list-style-type: none"> reads and spells words about alcohol correctly i.e. fermentation Distillation 	<ul style="list-style-type: none"> Definition of alcohol Methods of making alcohol Meaning of alcoholism Reasons why people take alcohol Effects of alcoholism Ways of avoiding alcoholism 	<ul style="list-style-type: none"> Guided discussion Illustration 	<ul style="list-style-type: none"> Naming examples of alcoholic drinks. Doing an experiment on distillation. fermenting banana juice Dramatizing alcoholism 	<ul style="list-style-type: none"> Ripe banana Sorghum flour Chart showing distillation of alcohol 	Life skills <ul style="list-style-type: none"> -self esteem -expressing likes & dislikes -Self appreciation -decision making -refusal -asking questions -telling consequences of decisions made. Values <ul style="list-style-type: none"> -endurance -responsibility -concern -self reliance -independence 	Comp. pri. Sci bk6 Pg116-120 Understanding integrated sci bk6 Pg62-66 Functional pri. Sci bk6 Pg99-106 Mk Integrated sci bk 6 Pg 81-89	

9	T	o	1	0	I	n	T	h	e	S	o	c	i	e	t	y	Smoking <p>smoking</p> <p>The learner;</p> <ul style="list-style-type: none"> Observes products from tobacco mentions effects of smoking to an individual, family and community <p>The learner;</p> <ul style="list-style-type: none"> reads and spells words about smoking correctly e.g. <ul style="list-style-type: none"> ✓ addiction ✓ nicotine ✓ tar ✓ passive smoking reads and writes sentences about smoking correctly 	<ul style="list-style-type: none"> types of smoking Reasons for smoking Effects of smoking to an individual, family and community 	Observation Guided discovery	<ul style="list-style-type: none"> Observing products from tobacco Giving reasons why people smoke 	Tobacco leaves Cigarette	Life skills <ul style="list-style-type: none"> Self esteem Expressing likes & dislikes Self appreciation Decision making Asking questions Telling consequences of decisions made 	Comp r. Pri. Sch Pg 236-238 Mk integr atedp ri. Scibk 6 Pg169 -176 Comp r. Pri. Sch. Scibk 6 Pg 116-120 Funct ional pri. Sci bk6 Pg192 -199 Comp r. Prisch sci bk6 Pg236 -238 Under standi ng integr atedsc ibk 6 Pg118 -122
																	Drugs <p>Essential drugs</p> <p>The learner;</p> <ul style="list-style-type: none"> Observing essential drugs states what essential drugs are types of essential drugs drug prescription mentions ways of storing drugs <p>The learner;</p> <ul style="list-style-type: none"> reads and spells words about drugs e.g. <ul style="list-style-type: none"> ✓ Essential Narcotic ✓ Contraceptive ✓ Drug prescription 	<ul style="list-style-type: none"> Drugs essential drugs Types of essential drugs Meaning of drug prescription Ways of storing drugs Meaning of drug misuse 	• Demonstration • Guided discussion	<ul style="list-style-type: none"> Observing essential drugs. Giving examples of essential drugs and their importance in the body. 	Panadol, septrin packets of drugs showing drug prescription	Value <ul style="list-style-type: none"> Endurance Responsibility Concern Self reliance independence 	

					Narcotic drugs <ul style="list-style-type: none"> • The learner; states what narcotic drugs are • gives reasons for drug abuse • suggests reasons why people abuse drugs • states the effects of drugs to an individual, family and community 	The learner; <ul style="list-style-type: none"> • reads and spells words about narcotic drugs correctly e.g. <ul style="list-style-type: none"> ✓ Cocaine ✓ Mirraa ✓ Heroine • reads and writes sentences about narcotic drugs correctly 	<ul style="list-style-type: none"> • Definition of narcotic drugs or drugs of dependence • drug dependence • drug abuse • Examples of narcotic drugs • Reasons why people abuse drugs • Effects of drug abuse to an individual, family and community 	<ul style="list-style-type: none"> • Guided discussion • Guided discovery 	<ul style="list-style-type: none"> • Giving examples of commonly abused drugs 	-tobacco leaves -waragi			
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