## P.7 SCHEME OF WORK SCIENCE TERM 1-3 2024

WK	PD	THE ME/ TOPI C	SUBTOPIC/ CONTENT	SUBJECT COMPETEN CES	LANGUAGE COMPETENC ES	METH ODS	ACT IVIT Y	SKI LLS	VALU ES	INST. MAT.	REF	REM
1	1 to 3		Orientation. Going through holi	day work.								
	4	HUMAN BODY Muscular- Skeletal system	Description of muscular skeletal system. Types of skeletons Structure of the skeletal system and its parts.	The learner; -names different bones and muscles of the human body -Draws and labels the skeleton and voluntary muscles	The learner; -reads words, sentences muscles and joints of the bodyWrites guided notes on the system Names the different bones and muscles of the human skeleton.	Discuss ion Demon stration . Observ ation Discove ry method .	Maki ng obse rvati ons. Nam ing diffe rent bone s Dra wing Labe ling	Criti cal thin king Deci sion maki ng	Logic Takin g decisi on Respo nsibili ty	Huma n skelet on	Intro duct ion to Biolo gy pg 119	

	5	Classification of	-Identifies	-Reads words,	Discuss	Maki	Prob	Logic	A well	Intro	
		bones.	different	sentences and	ion	ng	lem	Takin	drawn	duct	
		Classification	classes of	stories about		_	solvi		chart	ion	
					Demon	obse		g 1:-:	Chart		
		and types of	bones in the	muscles and	stration	rvati	ng.	decisi		to	
		Joints.	human	joints of the		on	Criti	on	Huma	Biolo	
			body.	body.	Observ	Nam	cal	Makin	n	gy	
			-Describes	-Write guided	ation	ing	thin	g right	skelet	pg	
			different	notes on the	Discove	diffe	king	choice	on	120	
			joints in the	system.	ry	rent	Deci	s.		-	
			body.		method	bone	sion	Confid		122	
			-Explain the		•	s	maki	ence			
2	1	Muscles	-Names	-Recites a	Discuss	Dra	Crea	Logic	A well	Intro	
		Types of muscles	different	poem on	ion	wing	tive	Takin	drawn	duct	
		Functions of	muscles of	diseases and	Demon	Labe	thin	g	chart	ion	
		muscular skeletal	the human	disorders of	stration	ling	king	decisi		to	
		system.	body	muscles and		Read	Deci	on		Biolo	
		Diseases and	-Discusses	bones.	Observ	ing	sion	Makin		gy	
		disorders of the	functions of	-Write guided	ation	stori	maki	g right		pg	
		system	the	notes on the	Discove	es.	ng	choice		123	
		3	muscular	system.	ry	Desc	Effec	s.			
			skeletal	-Draws and	method	ribin	tive	Confid			
			system.	labels the		g	com	ence			
			-States	structure of	•	dise	mun	Respo			
								-			
			diseases	the skeletal		ases	icati	nsibili			

2		Prevention of diseases and	-States diseases	-Reads words,	Discuss	Maki ng	Prob lem	Logic Takin	A well drawn	Mk book	
		diseases and disorders of the system. Health habits that keep the system in a healthy working condition. Posture. Importance of correct posture. Dangers of poor posture.	diseases and disorders of the skeletal systemExplain ways of caring for the muscular- skeletal systemDescribes the importance of good posture	sentences and stories about muscles and joints of the bodyRecites a poem on diseases and disorders of muscles and bonesWrite guided notes on the system.	ion Demon stration . Observ ation Discove ry method .	ng obse rvati on Nam ing diffe rent bone s Dra wing Labe ling	lem solvi ng. Crea tive thin king Deci sion maki ng Effec tive com mun icati on	Takin g decisi on Makin g right choice s. Confid ence	drawn	book four.	
3	MATTER AND ENERGY Electricity and Magnetism	Electricity Sources of electricity Cells Structure of a dry cell. Parts of a dry cell. Calculate for voltage.	-Explains the meaning of electricityIdentifies the sources of electricityDiscusses the parts of the dry cell -Calculates for voltage in dry cells.	-Reads words and sentences on electricity and magnetismWrites words, sentences and short stories about electricity and magnetism in the modern world of workDraws the dry cell showing	Discuss ion Demon stration . Observ ation Discove ry method	Nam ing Gen erati ng stati c elect ricit y Maki ng temp orar v	Critical thin king. Creative thin king. Decision making	Respo nsibili ty.	Dry cells	Nelk on and park er pg 207- 402 Scie nce dicti onar y pg 58 - 69	
4		Simple cell//wet	-Explains	-Reads words	Discuss	Asse	Prob	Logic	Lemo	Nelk	

	ı .				•		_			
	cel		the making	and sentences	ion	mbli	lem	Takin	ns	on
		hemical battery.	of simple	on electricity	Demon	ng	solvi	g		and
		0	cells.	and	stration	circu	ng	decisi	Coppe	park
	SO <sup>2</sup>	ources of	-Explains	magnetism.	•	its	Criti	on.	r rods	er pg
	ele	ectricity.	the sources	-Writes words,	Observ	Nam	cal	Makin		207-
	Th	ne sun	of electricity	sentences and	ation	ing	thin	g right	Dilute	402
	Fo	ossil fuels.	from	short stories	Discove	Gen	king.	choice	sulph	
	Nu		chemical	about	ry	erati	Deci	s.	uric	Scie
			batteries,	electricity and	method	ng	sion	Confid	acid	nce
	***		running	magnetism in	111001100	stati	maki	ence	aora	dicti
			water, the	the modern		C	ng	Respo		onar
			sun, fossil	world of work.		elect	Effec	nsibili		
			fuels,	world or work.		ricit	tive	ty.		y pg 58 –
			nuclear					Ly.		69
						У	com			09
			energy and			Dra ·	mun			A 1 1
			wind.			wing	icati			Abb
						Read	on			ott
						ing				
						Writi				
						ng				
5		_	-Discusses	-Writes words,	Discuss	Gen	Criti	Logic	Wires	Nelk
		ectricity;	the two	sentences and	ion	erati	cal	Takin		on
			types of	short stories	Demon	ng	thin	g	Insula	and
	cu	irrent and	electricity	about	stration	stati	king.	decisi	ted	park
	ele	ectrons.	-	electricity and		c	Crea	on.	wires	er pg
	Th	ne D.C and A.C	Experiments	magnetism in	Observ	elect	tive	Makin		207-
	Fo	orms of	with static	the modern	ation	ricit	thin	g right		402
	ele	ectricity.	electricity.	world of work.	Discove	y	king.	choice		
		onductors of	-Explains	-Draws the	ry	Maki	Deci	s.		Scie
			the flow of	diagram	method	ng	sion	Confid		nce
		· - J	current and	showing flow		temp	maki			dicti
		ectricity.	electrons.	of current and		orar	ng	Respo		onar
	CIC	continue.	-Identifies	electrons.		y	Effec	nsibili		
			different	cicciions.		-	tive			y pg 58 –
						mag		ty.		
			forms of			nets.	com			69

			electricityExplains conductors and insulators of electricity			Dra wing Read ing Writi ng	mun icati on			Abb ott	
3	1	Electric circuit Components of a circuit Draw electric circuit. Uses of parts of the circuit. The conducting wire Symbols used in an electric circuit	Draws and labels the electric circuit. Identifies the use of the components of the circuit. Explains the components of a conducting wire.	Names different parts of the electric circuitReads words and sentences on electricity and magnetismWrites words, sentences about electricity in the modern world of work.	Discuss ion Demon stration . Observ ation Discove ry method	Asse mbli ng circu its Maki ng temp orar y mag nets. Dra wing Read ing Writi ng	Problem solving Critical thin king. Creative thin king. Decision making	Logic Takin g decisi on. Makin g right choice s. Confid ence Respo nsibili ty.	Fuses Amme ters Dry cells	Nelk on and park er pg 207- 402 Scie nce dicti onar y pg 58 – 69	

2	The torch	Explains the	-Reads words	Discuss	Dra	Criti	Takin	Torch	Nelk
	Use of parts of	parts and	and sentences	ion	wing	cal	g		on
	the torch.	working of	on electricity	Demon	Read	thin	decisi	Dry	and
	The bulb	the torch.	and	stration	ing	king.	on.	cells	park
	Use of parts of a	Explains the	magnetism.		Writi	Crea	Makin		er pg
	bulb.	parts and	-Writes words,	Observ	ng	tive	g right	Electri	207-
		working of	sentences and	ation		thin	choice	c	402
		the bulb.	short stories	Discove		king.	s.	bulbs	
		Identifies	about	ry		Deci	Confid		Scie
		the symbols	electricity and	method		sion	ence		nce
		of the nexts	magnatian in			به م 1 - ن	Dagea		diati

	_	T .		_	ı	ı	1		
3 Short circuit	-Identifies	-Reads words	Discuss	Asse	Prob	Logic	Electri	Nelk	
Causes of short	the effects of	and sentences	ion	mbli	lem	Takin	С	on	
circuit.	short	on electricity	Demon	ng	solvi	g	wires	and	
Effects of short	circuits.	and	stration	circu	ng	decisi		park	
circuit.	-Identifies	magnetism.		its	Criti	on.	Plastic	er pg	
How to avoid	ways of	-Writes words,	Observ	Nam	cal	Makin	pens	207-	
short circuit.	avoiding	sentences and	ation	ing	thin	g right		402	
Static electricity	short	short stories	Discove	Gen	king.	choice	Pencil		
Lightning.	circuits.	about	ry	erati	Crea	s.	s	Scie	
Differences	-explains	electricity and	method	ng	tive	Confid		nce	
between static	what static	magnetism in		stati	thin	ence.		dicti	
and current	electricity is.	the modern		С	king.	Respo		onar	
electricity.	-discusses	world of work.		elect	Deci	nsibili		y pg	
Disadvantage of	dangers and			ricit	sion	ty.		58 –	
electricity.	safety			у	maki			69	
Safety	precautions			Maki	ng				
precautions in	of			ng	Effec			Abb	
handling	electricity.			temp	tive			ott	
electricity and	-explains			orar	com				
electrical	the			у	mun				
appliances.	advantages			mag	icati				
Importance of	of			nets.	on				
electricity.	electricity.			Dra					
	-discusses			wing					
	the			Read					
	importance			ing					
	of electricity			Writi					
	in day today			ng					
	problems.								
	1								
4 Magnetism and	-explains	-Reads words	Discuss	Maki	Prob	Takin	Magne	Nelk	
magnets	what	and sentences	ion	ng	lem	g	ts	on	
Magnetic	magnetism	on electricity	Demon	temp	solvi	decisi		and	
materials	is.	and	stration	orar	ng	on.		park	
Types of magnets	-Identify	magnetism.		у	Criti	Makin		er pg	

			TT7 *. *	01					007	
	Properties of	magnetic	-Writes words,	Observ	mag	cal	g right		207-	
	magnets.	and non	sentences and	ation	nets.	thin	choice		402	
		magnetic	short stories	Discove	Dra	king	s.			
		materials.	about	ry	wing				Scie	
		-Identifies	electricity and	method	Read				nce	
		natural and	magnetism in		ing				dicti	
		artificial	the modern		Writi				onar	
		magnets.	world of work.		ng				y pg	
		- explains							58 –	
		the							69	
		classificatio								
		n of							Abb	
		magnets.							ott	
5	Magnetic field	-explains	-Reads words	Discuss	Asse	Prob	Logic	Magne	Nelk	
	Properties of	magnetic	and sentences	ion	mbli	lem	Takin	ts	on	
	magnetic fields	field	on electricity	Demon		solvi		is.	and	
	Preventing	neid	and	stration	ng circu		g decisi			
		-		stration	its	ng			park	
	magnets from	demonstrate	magnetism.			Criti	on.		er pg	
	losing	s ways of	-Writes words,	Observ	Nam	cal	Makin		207-	
	magnetism.	making	sentences and	ation	ing	thin	g right		402	
	Methods of	temporary	short stories	Discove	Gen	king.	choice			
	making magnets.	magnets.	about	ry	erati	Crea	s.		Scie	
		-explains	electricity and	method	ng	tive	Confid		nce	
		the	magnetism in		stati	thin	ence.		dicti	
		properties of	the modern		c	king.	Respo		onar	
		magnetic	world of work.		elect	Deci	nsibili		y pg	
		fields.	-Draws		ricit	sion	ty.		58 –	
		-discusses	illustrations		у	maki			69	
		ways of	on making of		Maki	ng				
		preventing	temporary		ng	Effec			Abb	
		loss of	magnets.		temp	tive			ott	
		magnetism.	1.6-2.131		orar	com				
		-explains			y	mun				
		the methods			mag	icati				
		of making			_					
		or making			nets.	on				

			magnets.			Dra					
			magneto.			wing					
						Read					
						ing					
						Writi					
						ng					
						116					
4	1	Electromagnet	-discusses	-Reads words	Discuss	Asse	Prob	Logic	Solen	Nelk	
		Determining the	the working	and sentences	ion	mbli	lem	Takin	oid	on	
		poles of	of the	on electricity	Demon	ng	solvi	g		and	
		electromagnets.	electric bell.	and	stration	circu	ng	decisi	An	park	
		Demagnetizing.	-explains	magnetism.		its	Criti	on.	electr	er pg	
		Electric bell.	the ways of	-Writes words,	Observ	elect	cal	Makin	О	207-	
			determining	sentences and	ation	ricit	thin	g right	magn	402	
			the poles of	short stories	Discove	у	king.	choice	et		
			electromagn	about	ry	Maki	Crea	s.		Scie	
			ets.	electricity and	method	ng	tive	Confid		nce	
			-explains	magnetism in		temp	thin	ence		dicti	
			ways of	the modern		orar	king.	Respo		onar	
			demagnetizi	world of work.		у	Deci	nsibili		y pg	
			ng a	-Draws and		mag	sion	ty.		58 –	
			magnet.	labels the		nets.	maki			69	
				electric bell.		Dra	ng				
						wing				Abb	

					Read ing Writi				ott	
					ng					
2	Generating	-discusses	-Reads words	Discuss	Nam	Prob	Logic	A	Nelk	
	electricity using a	the process	and sentences	ion	ing	lem	Takin	bicycl	on	
	dynamo and a	involved in	on electricity	Demon	Gen	solvi	g	e	and	
	generator.	generation	and	stration	erati	ng	decisi		park	
	Uses of dynamos	of electricity	magnetism.		ng	Criti	on.		er pg	
	and generators.	using a	-Writes words,	Observ	stati	cal	Makin		207-	
	Appliances that	dynamo.	sentences and	ation	С	thin	g right		402	
	use electricity,	-discusses	short stories	Discove	elect	king.	choice			
	magnetism and	the uses of	about	ry	ricit	Crea	s.		Scie	
	both electricity	electricity	electricity and	method	У	tive	Confid		nce	
	and magnetism.	and	magnetism in		Maki	thin	ence.		dicti	
		magnetism	the modern		ng	king.	Respo		onar	
		in modern	world of work.		temp	Deci	nsibili		y pg	
		world of			orar	sion	ty.		58 –	
		work.			У	maki			69	
		-Identifies			mag	ng				
		appliances			nets.	Effec			Abb	
		that use			Dra	tive			ott	
		electricity			wing	com				
		alone,			Read	mun				
		magnetism			ing	icati				
		alone and			Writi	on				
		both.			ng					

3			Resources	-explains	-Write guided	Discuss	Nam	Criti	Logic	A well	MK	
			Energy resource	what energy	notes on the	ion	ing	cal	Confid	drawn	,Fou	
	Ť.		Energy resources	resources	Energy	Demon	ener	thin	ence.	chart	ntai	
	$\mathbb{Z}$		eg sun, water,	are.	resource	stration	gy	king.	Takin	Energ	n,	
	$\mathbb{Z}$	Ses	minerals etc	-names	-Writes short		reso	Deci	g right	У	,SC.	
	N	Jrc	Importance of the	different	descriptions	Observ	urce	sion	decisi	resour	Bk 7	
	  R(	Energy resources	sun as a	energy	on energy	ation	s.	maki		ces.		
	$\sum$	re	resource.	resources.	resources and	Discove	_	ng.	Makin			
	딘	83	Water as an	-discusses	sources.	ry	Expe	Crea	g right			
	囝	ler	energy resource	the	-Reads words	method	rime	tive	choice			
	THE ENVIRONMENT.	En	eg provides HEP,	importance	and sentences		ntin	thin	s.			
4			Steam Tidal Fossil fuels eg	-explains	-Writes guided	Discuss	Nam	<del>Lina</del> Criti	Logic	A well	MK	
			petroleum, coal	the	notes on the	ion	ing	cal	Confid	drawn	Fou,	
			etc	generation	Fossil fuels	Demon	ener	thin	ence	chart	ntai	
			Uranium	of atomic	-Writes short	stration	gy	king.	Takin	Energ	n,	
			Geothermal	electricity.	descriptions	Stration	reso	Deci	g right	y	,SC.	
			energy	-explains	on energy	Observ	urce	sion	decisi	resour	,sc. Bk 7	
			Animals as	the working	resources and	ation	s.	maki		ces.	DK 1	
			energy resources.	of	sources.	Discove	· .	ng.	Makin	ccs.		
			Wind as energy	geothermal	-Reads words	ry	Expe	Crea	g right			
			resources.	energy.	and sentences	method	rime	tive	choice			
			Plants as energy	-discusses	about energy	memoa	ntin	thin	S.			
			resources.	the	resources and		g on	king.	Appre			
			1000 ar coo.	importance	their		stea	Effec				
				of animals,	functions.		m	tive	n.			
				wind and	-Write a story		and	com	Care			
				plants as	about coal and		prop	mun	Caro			
				energy	petroleum.		eller.	icati				
				resources.	F		Dra	on				
							wing					
							8					
							Writi					
							ng.					

	5		Biogas production Biomass as amount of living matter in the area. Steps of making biogas digester. Structure of biogas digester. Advantages of using biogas.	-describes how to make biogas digesterdraws the biogas digester -explains the working of biogas digesterinitiates the activities which cause safe and sustainable way of using energy resourcesexplains the advantage of biogas digester.	-Write guided notes on the Biogas production -Writes short descriptions on energy resources and sourcesReads words and sentences about energy resources and their functionsDraws biogas digesterwrite steps of making biogas digester.	Discuss ion Demon stration . Observ ation Discove ry method	Nam ing ener gy reso urce s Expe rime ntin g on stea m and prop eller. Dra wing . Writi ng.	Critical thin king. Decision making. Creative thin king. Effective communication	Logic Confid ence. Takin g right decisi on. Makin g right choice s. Appre ciatio n. Care	A well drawn chart Energ y resour ces.	MK ,Fou ntai n, ,SC. Bk 7	
WK	PD	THEME / TOPIC	SUBTOPIC/ CONTENT	SUBJECT COMPETEN CES	LANGUAGE COMPETENC ES	METH ODS	ACT IVIT Y	SKI	VALU ES	INST. MAT.	REF	RM

1			GOING THROUGH H	OLIDAY WOR	K							
2	1	MATTER AND ENERGY. Simple Machines and Friction.	Friction. Types of friction e. Properties of friction Friction as a useful force in our daily life. How to increase friction Advantages and disadvantages of friction. How friction can be reduced.	-States the meaning of friction -investigates the effect of friction on matterState the importance of frictionStates the types of friction experiments with frictionExplain the advantages and disadvantag es of friction.	-Writes guided notes on FrictionWrites words, sentences and stories about simple machinesDraw and labels diagramsReads words, sentences and stories about frictional force and how simple machines operateDescribes ways of reducing friction.	Discuss ion Demon stration . Observ ation Discove ry method	Set experime nts Calculating Identifying Drawing. Writing Reading. Labeling.	Deci sion maki ng Criti cal thin king. Prob lem solvi ng Effec tive com mun icati on.	ciatio n Respo nsibili ty. Care Takin g decisi	Hubs, axle, knife, panga, ball bearin gs, grease, boots, tyres, Bicycl e.	Scie nce dicti onar y 90	

2	MACHINES	-explains	-Write guided	Discuss	Set	Deci	Fluen	Pulley	Scie	
	Types of machines	the two	notes on	ion	expe	sion	cy	s,	nce	
	Examples of	types of	machines	Demon	rime	maki	Appre	crowb	dicti	
	complex	machines.	- Writes	stration	nts	ng	ciatio	ar,	onar	
	Examples of simple	explains	words,		Calc	Criti	n		y	
	machines	how to	sentences and	Observ	ulati	cal	Respo		138	
	Classes of simple	determine	stories about	ation	ng	thin	nsibili		-	
	machines	the class of	simple	Discove	Iden	king.	ty.		139	
	Classes of levers i.e.	levers.	machines.	ry	tifyi	Prob				
	first class lever.	-carries out	-Draw and	method	ng	lem				
		experiments	labels		Dra	solvi				
		with	diagrams.		wing	ng				
		different				Effec				
		simple			Writi	tive				
		machines.			ng	com				
		-describes			Read	mun				
		the parts of			ing.	icati				
		the lever.			Labe	on				
					ling					

3	Levers	-describes	-Write guided	Discuss	Set	Deci	Fluen	Levers	Scie	
	Second class levers	different	notes on the	ion	expe	sion	су	,	nce	
	e.g. wheel barrow	classes of	Levers	Demon	rime	maki	Appre	Huma	dicti	
	Third class levers.eg	levers.	- Writes	stration	nts	ng	ciatio	n	onar	
	human arm.	Models	words,		Calc	Criti	n	arm,	y	
		simple	sentences and	Observ	ulati	cal	Respo	pair of	138	
		machines	stories about	ation	ng	thin	nsibili	tweeze	-	
		from local	simple	Discove	Iden	king.	ty.	rs	139	
		materials.	machines.	ry	tifyi	Prob	Care			
		-discuss the	-Draw and	method	ng	lem	Takin			
		parts of the	labels		Dra	solvi	g			
		lever.	diagrams.		wing	ng	decisi			
		- describes				Effec	on			
		the effect of			Writi	tive	Makin			
		force on			ng	com	g right			
		lever.			Read	mun	choice			
					ing.	icati	s.			
					Labe	on	Logic			
					ling					

4	The principle of	Calculates	-Write guided	Discuss	Set	Deci	Fluen	Crow	Scie	
	levers. The load X	for the	notes on the	ion	expe	sion	cy	bar	nce	
	load arm is equal to	unknowns.	Levers	Demon	rime	maki	-		dicti	
	the effort x effort		- Writes	stration	nts	ng	ciatio		onar	
	arm.		words,		Calc	Criti	n		y	
	Calculations on		sentences and	Observ	ulati	cal	Respo		138	
	moments.		stories about	ation	ng	thin	nsibili		_	
			simple	Discove	Iden	king.	ty.		139	
			machines.	ry	tifyi	Prob	Čare			
			-Draw and	method	ng	lem	Takin			
			labels		Dra	solvi	g			
			diagrams.		wing	ng	decisi			
						Effec	on			
					Writi	tive	Makin			
					ng	com	g right			
					Read	mun	choice			
					ing.	icati	s.			
					Labe	on	Logic			
					ling					
5	Harder tasks on	Calculates	-Write guided	Discuss	Calc	Deci	Appre		Scie	
	moments involving	for the	notes on the	ion	ulati	sion	ciatio		nce	
	more than one	unknowns.	Levers	Demon	ng	maki			dicti	
	weight.		- Writes	stration	Iden	ng	Respo		onar	
			words,	•	tifyi	Criti	nsibili		у	
			sentences and	Observ	ng	cal	ty.		138	
			stories about	ation	Dra	thin	Care		-	
			simple	Discove	wing	king.	Takin		139	
			machines.	ry	•	Prob	g			
			-Draw and	method	Writi	lem				
			labels		ng	solvi				
			diagrams.		Read	ng				
					ing.	Effec				
					Labe	tive				
					ling	com				
						mun				

							icati on				
3	1	The inclined plane Examples of inclined planes. Importance of the inclined plane. Find the load distance, effort distance, W.D, M.A Work Calculation about work done.	explains what inclined planes are, -gives examples of inclined planesworkout simple calculation on inclined planesCalculates the M.A of machines.	-Write guided notes on the inclined plane - Writes words, sentences and stories about simple machinesDraw and labels diagrams.	Discuss ion Demon stration . Observ ation Discove ry method	Set expe rime nts Calc ulati ng Iden tifyi ng Dra wing . Writi ng Read ing. Labe ling	Deci sion maki ng Criti cal thin king. Prob lem solvi ng Effec tive com mun icati on	ciatio n Respo nsibili ty. Care Takin g decisi	Slope, slanti ng surfac es, ramp,	Scie nce dicti onar y 138 - 139	

2	Wedges	-describes	-Write guided	Discuss	Calc	Deci	Appre	Panga	Scie
	Examples of	wedges.	notes on the	ion	ulati	sion	ciatio	,	nce
	wedges.	-Identifies	wedges.	Demon	ng	maki	n	knife,	dicti
	Uses of wedges	different	- Writes	stration	Iden	ng	Care	etc	onar
	Screws	examples	words,		tifyi	Criti	Takin		y
	Uses of screws	wedges.	sentences and	Observ	ng	cal	g		138
	Examples of screws	-explains	stories about	ation	Dra	thin	decisi		-
		the nature	simple	Discove	wing	king.	on		139
		of screws.	machines.	ry	•	Prob	Makin		
		-Identifies	-Draw and	method	Writi	lem	g right		
		examples of	labels		ng	solvi	choice		
		screws.	diagrams.		Read	ng	s.		
		-proves that			ing.	Effec	Logic		
		screws are			Labe	tive			
		inclined			ling	com			
		planes.				mun			
						icati			
						on			

3	An axle is a rod	describes	-Write guided	Discuss		Deci	Appre	Screw	Scie	
	passed through a	wheels and	notes on the	ion	Dra	sion	ciatio	s	nce	
	wheel.	axle.	wheels and	Demon	wing	maki	n		dicti	
	Examples of devices	Identifies	axles	stration		ng	Respo		onar	
	that use the	different	- Writes		Writi	Criti	nsibili		y	
	principle of wheels	examples	words,	Observ	ng	cal	ty.		138	
	and axles	Wheels and	sentences and	ation	Read	thin	Care		_	
	How wheels and	axles	stories about	Discove	ing.	king.	Takin		139	
	axles work.	Identifies	simple	ry	Labe	Prob	g			
		examples of	machines.	method	ling	lem	decisi			
		Wheels and	-Draw and			solvi	on			
		axles.	labels			ng	Makin			
			diagrams.			Effec	g right			
						tive	choice			
						com	s.			
						mun				
						icati				
						on				

4	Pulleys	-explains	-Write guided	Discuss	Set	Deci	Fluen	Pulley	Scie	
	Importance of	what pulleys	notes on the	ion	expe	sion	cy	s.	nce	
	pulleys.	are.	Pulleys	Demon	rime	maki	Appre		dicti	
	Types of pulleys	-Identifies	- Writes	stration	nts	ng	ciatio		onar	
	Explanation on the	types of	words,		Calc	Criti	n		y	
	working of the	pulleys.	sentences and	Observ	ulati	cal	Respo		138	
	single fixed and	-explains	stories about	ation	ng	thin	nsibili		_	
	single movable	the working	simple	Discove	Iden	king.	ty.		139	
	pulleys.	of pulleys	machines.	ry	tifyi	Prob	Care			
	Calculations on the	-Calculates	-Draw and	method	ng	lem	Takin			
	two pulleys.	the M.A of	labels		Dra	solvi	g			
		pulleys.	diagrams.		wing	ng	decisi			
		-gives the				Effec	on			
		importance			Writi	tive	Makin			
		of pulleys in			ng	com	g right			
		everyday			Read	mun	choice			
		life.			ing.	icati	s.			
					Labe	on	Logic			
					ling					

	5	Differences between	-gives the	-Write guided	Discuss	Set	Deci	Fluen	Pulley	Scie	
		fixed and movable	differences	notes on the	ion	expe	sion	су	s.	nce	
		pulley.	between	Pulleys	Demon	rime	maki	_		dicti	
		Block and tackle	fixed and	- Writes	stration	nts	ng	ciatio		onar	
		system	movable	words,		Calc	Criti	n		у	
		Making a pulley	pulley.	sentences and	Observ	ulati	cal	Respo		138	
		system.	-explains	stories about	ation	ng	thin	nsibili		_	
		2, 200111	the making	simple	Discove	Iden	king.	ty.		139	
			of the	machines.	ry	tifyi	Prob	Care			
			pulleys.	-Draw and	method	ng	lem	Takin			
			paneys.	labels		Dra	solvi	g			
				diagrams.		wing	ng	decisi			
				alagranio.			Effec	on			
						Writi	tive	Makin			
						ng	com	g right			
						Read	mun	choice			
						ing.	icati	S.			
						Labe	on	Logic			
						ling		8			
4	1	Gear wheels/cog	-Identifies	-Write guided	Discuss	Set	Deci	Fluen	A	Scie	
		wheels or toothed	examples of	notes on the	ion	expe	sion	cy	bicycl	nce	
		wheels.	gear wheels.	Gear	Demon	rime	maki	Appre	e,	dicti	
		A gear wheel is a	-explains	wheels/cog	stration	nts	ng	ciatio		onar	
		special form of the	the working	- Writes		Calc	Criti	n		y	
		wheel with teeth	of	words,	Observ	ulati	cal	Respo		138	
		around the edge.	gearwheels.	sentences and	ation	ng	thin	nsibili		-	
		-Calculate for the	-finds the	stories about	Discove	Iden	king.	ty.		139	
		number of turns the	number of	simple	ry	tifyi	Prob	Care			
		gear wheels make in	turns made.	machines.	method	ng	lem	Takin			
		certain number of		-Draw and		Dra	solvi	g			
		revolutions.		labels		wing	ng	decisi			
				diagrams.			Effec	on			
1						Writi	tive	Makin			

 	T			T	I	1	Г	1	1	ı	, ,	
2			Excretion	-defines	-Write guided	Discuss	Writi	Deci	Appre	A	MK	
			Excretion is the	excretion.	notes on the	ion	ng	sion	ciatio	chart	,Fou	
			process by which	-Identifies	system.	Demon	Read	maki		of the	ntai	
		n.	harmful materials	examples of	-Reads words	stration	ing.	ng	Respo	skin,	n,	
	>-	ter	are removed from	excretory	and sentences		Dra	Criti	nsibili	text	,SC.	
	Ď	ystei	the body.	organs and	about	Observ	wing	cal	ty.	books	Bk 7	
	BC	S	Examples of	products.	excretory	ation		thin	Care		Intro	
	Z	OIT	excretory products	-draws the	system and	Discove		king.	Takin		duct	
	HUMAN BODY	æt	e.g. carbon dioxide,	structure of	their	ry		Prob	g		ion	
	5	XCI	water, salts etc	human skin	functions.	method		lem	decisi		.to	
	H	$\Xi$	Excretory organs					solvi	on		Biolo	
3			The human skin.	-describes	-Write guided	Discuss	Writi	Deci	Appre	A	MK	
			The structure of the	the human	notes on the	ion	ng	sion	ciatio	chart	,Fou	
			human skin	skin.	human skin.	Demon	Read	maki	n	of the	ntai	
			The layers of the	-gives the	- Reads words	stration	ing.	ng	Respo	skin,	n,	
			skin ie epidermis	uses of the	and sentences		Dra	Criti	nsibili	Text	,SC.	
			and dermis.	parts of the	about the	Observ	wing	cal	ty.	books.	Bk 7	
			Uses of the parts of	human	skin.	ation	•	thin			Intro	
			the skin.	skin.		Discove		king.			duct	
						ry		Effec			ion	
						method		tive			.to	
								com			Biolo	
								mun			gy	
								icati			pg	
								on			109	

			*** **	l 5.		- ·	T =	I		
4	The human skin	-Explains	-Write guided	Discuss	Writi	Deci	Respo		MK	
	Functions of the	the uses of	notes on the	ion	ng	sion	nsibili		,Fou	
	skin.	the skin.	human skin.	Demon	Read	maki	5		ntai	
	Regulation of the	-Describes	- Reads words	stration	ing.	ng	Care		n,	
	body temperature.	how the	and sentences		Dra	Criti	Takin		,SC.	
	Diseases of the	body	about the	Observ	wing	cal	g		Bk 7	
	human skeleton.	regulates	skin.	ation		thin	decisi		Intro	
	Disorders of the	body		Discove		king.	on		duct	
	skin.	temperature		ry		Prob	Makin		ion	
	Care of the human			method		lem	g		to	
	skin.	-Identifies				solvi			Biolo	
		the diseases				ng			gy	
5	Kidneys.	-draws the	-Write guided	Discuss	Writi	Deci	Fluen	A	MK	
	Structure of the	structure of	notes on the	ion	ng	sion	cy	chart	,Fou	
	kidney	the Kidney.	Kidneys.	Demon	Read	maki	Appre	of the	ntai	
	Functions of the	-explains		stration	ing.	ng	ciatio	huma	n,	
	parts of the Kidney.	the	-Reads words		Dra	Criti	n	n	,SC.	
	Functions of the	functions of	and sentences	Observ	wing	cal	Respo	kidne	Bk 7	
	kidney.	the parts of	about Kidneys	ation		thin	nsibili	ys	Intro	
	Good habits for the	the kidney	and their	Discove		king.	ty.		duct	
	kidney.	-identifies	functions.	ry		Prob	Care		ion	
		the general		method		lem	Takin		to	
		functions of				solvi	g		Biolo	
		the kidney				ng	decisi		gy	
		to the body.				Effec	on		pg	
						tive	Makin		106	
						com	g right			
						mun	choice			
						icati	s.			
						on	Logic			

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5	1	Functions of the	-explains	-Write guided	Discuss	Writi	Deci	Fluen	A	MK	
		parts.	the	notes on the	ion	ng	sion	cy	chart	,Fou	
		Diseases of the	functions of	Kidneys.	Demon	Read	maki	Appre	of the	ntai	
		Kidney.	the parts of		stration	ing.	ng	ciatio	Urinar	n,	
		Disorders of the	the urinary	-Reads words		Dra	Criti	n	у	,SC.	
		urinary system.	system.	and sentences	Observ	wing	cal	Respo	syste	Bk 7	
		Good habits for the	-identifies	about Kidneys	ation		thin	nsibili	m	Intro	
		urinary system.	the diseases	and their	Discove		king.	ty.		duct	
			of the	functions.	ry		Prob	Čare		ion	
			urinary		method		lem	Takin		to	
			system.				solvi	g		Biolo	
			-Identifies				ng	decisi		gy	
			any				Effec	on		pg	
			disorders of				tive	Makin		106	
			the kidney				com	g right			
			and urinary				mun	choice			
			system.				icati	s.			
			-explains				on	Logic			
			the good				011	20810			
			habits for								
			the proper								
			functioning								
			of the								
			system.								

2		Lungs	-explains	-Write guided	Discuss	Writi	Deci	Fluen		MK	
-		The lungs as	how the	notes on the	ion	ng	sion	cy		,Fou	
		excretory organs.	lungs work	Lungs	Demon	Read	maki			ntai	
		Diseases of the	as excretory	-Reads words	stration	ing.	ng	ciatio		n,	
		lungs eg lung	organs.	and sentences	. Stration	Dra	Criti	n		,SC.	
		cancer.	-identifies	about the	Observ	wing	cal	Respo		Bk 7	
		Disorders of	the diseases	lungs as	ation		thin	nsibili		Intro	
		lungs.eg choking	of the lungs.	excretory	Discove		king.	ty.		duct	
		etc	-identifies	organ.	ry		Prob	Care		ion	
		Liver	the	0180111	method		lem	Takin		to	
		Functions of the	disorders of				solvi	g		Biolo	
		liver.	the lungs.				ng	decisi		gy	
		Circulation to and	-explains				Effec	on		pg	
		from the liver-	how the				tive	Makin		102	
		Diseases of the	livers works				com	ø riøht			
3		Light	-explains	-Write guided	Discuss	Writi	Deci	Fluen	Torch,	Scie	
		Sources of light.	the meaning	notes on the	ion	ng	sion	cy	candle	nce	
		Natural and	of light.	Sources of	Demon	Read	maki		,	dicti	
		artificial sources of	-identifies	light.	stration	ing.	ng	ciatio	match	onar	
		light.	the natural	- Reads words		Dra	Criti	n	box,	У	
		Luminous and non	and artificial	and sentences	Observ	wing	cal	Respo	lamp,	130	
		luminous objects.	sources of	about light	ation	Dem	thin	nsibili		_	
		Properties of light.	light.	energy.	Discove	onst	king.	ty.		137	
	>		-explains		ry	ratio	Prob	Care			
	SG		the		method	n.	lem	Takin		MK	
	E.		luminous		•		solvi	g		,Fou	
	ENERGY rgy		and non				ng	decisi		ntai	
	D] ne		luminous				Effec	on		n,	
	AND it Ene		objects.				tive	Makin		,SC.	
			-explains				com	g right		Bk 7	
	E.i.		and				mun	choice			
	MATTER Ligh		demonstrate				icati	S.			
	$\mathbf{M}^{k}$		s the				on	Logic			
			properties of light.								
			ngnt.		1	1	I				1

4	Beams of light.	-explains	-Write guided	Discuss	Writi	Deci	Fluen	A	Scie	
	Types of beams	the meaning	notes on the	ion	ng	sion	cy	torch.	nce	
	Ray	of beam of	Beams of light	Demon	Read	maki	Appre		dicti	
	Uses of light from	light.	- Reads words	stration	ing.	ng	ciatio		onar	
	different sources of	-identifies	and sentences		Dra	Criti	n		у	
	light	the types of	about light	Observ	wing	cal	Respo		130	
		beam of	energy.	ation		thin	nsibili		_	
		light.		Discove		king.	ty.		137	
		-explains		ry		Prob	Care			
		the meaning		method		lem	Takin		MK	
		of ray.				solvi	g		,Fou	
		Identifies				ng	decisi		ntai	
		the uses of				Effec	on		n,	
		different				tive	Makin		,SC.	
		sources of				com	g right		Bk 7	
		light.				mun	choice			
						icati	s.			
						on	Logic			

		1		Г		T	l	T =	l			1
	5		Effects of different	-explains	-writes guided	Discuss	Writi	Deci	Fluen	Clear	Scie	
			materials on light	the effects of	notes on the	ion	ng	sion	cy	glass,	nce	
			Transparent	different	effects of	Demon	Read	maki		froste	dicti	
			materials eg clear	materials on	different	stration	ing.	ng	ciatio	d	onar	
			glass	light.	materials on		Dra	Criti	n	glass,	у	
			Translucent	-identifies	light	Observ	wing	cal	Respo	wood	130	
			materials eg frosted	examples of	- Reads words	ation		thin	nsibili		_	
			glass	different	and sentences	Discove		king.	ty.		137	
			Effects of different	materials.	about light	ry		Prob	Čare			
			materials on		energy.	method		lem	Takin		MK	
			transparent		011018)	1110 0110 01		solvi	g		,Fou	
			translucent and					ng	decisi		ntai	
			opaque objects.					Effec	on		n,	
								tive	Makin		,SC.	
								com	g right		Bk 7	
								mun	choice			
								icati	s.			
								on	Logic			
6	1		Shadows	-defines	-Write guided	Discuss	Writi	Deci	Appre	Torch,	Scie	
			Shadow formation	shadows	notes on the	ion	ng	sion	ciatio	candle	nce	
			From a point	-explain	Shadows	Demon	Read	maki	n	,	dicti	
			source.	formation of	- Reads words	stration	ing.	ng	Respo	match	onar	
			From a source	shadows.	and sentences		Dra	Criti	nsibili	box,	y	
			bigger than a point.	-draws	about light	Observ	wing	cal	ty.	5011,	130	
			Parts of the	shadows	energy.	ation		thin	decisi		_	
			shadow.	from a point		Discove		king.	on		137	
			511440111	source and		ry		Effec	Makin			
				from a		method		tive	g right		MK	
				source		incuiva		com	choice		Fou,	
				bigger than				mun	S.		ntai	
				a point.				icati	٥.		n,	
				a point.				on			,SC.	
								011			,sc. Bk 7	
											ואט	
							1	1		1		1

2	Defn of eclipse.	-defines	-Write guided	Discuss	Writi	Criti	Appre	A	Scie	
	Types of eclipse.	eclipse.	notes on the	ion	ng	cal	ciatio	chart	nce	
	Draw the eclipses.	-explains	eclipse.	Demon	Read	thin	n	showi	dicti	
		the types of	- Reads words	stration	ing.	king.	decisi	ng	onar	
		eclipse.	and sentences		Dra	Prob	on	eclips	y	
		-draws the	about light	Observ	wing	lem	Makin	es	130	
		lunar and	energy.	ation		solvi	g right		-	
		solar		Discove		ng	choice		137	
		eclipses.		ry		Effec	s.			
				method		tive			MK	
						com			,Fou	
						mun			ntai	
						icati			n,	
						on			,SC.	
									Bk 7	

 		I	1	I .	T	ı	ı		1	
3	Reflection	-defines	-Write guided	Discuss	Writi		Fluen	Chalk	Scie	
	Reflection is the	reflection.	notes on the	ion	ng	sion	cy	board	nce	
	bouncing of light	-explains	Reflection	Demon	Read	maki	Appre	drawi	dicti	
	Types of reflection	types of	- Reads words	stration	ing.	ng	ciatio	ngs	onar	
	e.g. regular,	reflection	and sentences		Dra	Criti	n		y	
	irregular reflection.	-identifies	about light	Observ	wing	cal	Respo		130	
	Calculation on	the parts of	energy.	ation		thin	nsibili		-	
	regular reflection	a regular		Discove		king.	ty.		137	
	The laws of	reflection.		ry		Prob	Care			
	reflection eg angle	-calculates		method		lem	Takin		MK	
	of incidence is equal	for the				solvi	g		,Fou	
	to the angle of	unknown				ng	decisi		ntai	
	reflection.	angles on a				Effec	on		n,	
	Uses of reflection in	regular				tive	Makin		,SC.	
	our daily life.	reflection.				com	g right		Bk 7	
	, and the second	-explains				mun	choice			
		the laws of				icati	s.			
		reflection.				on	Logic			
		-identifies								
		uses of								
		reflection in								
		our daily								
		life.								

4	Reflection and	-identifies	-Writes guided	Discuss	Writi	Deci	Fluen	Colou	Scie	
	colour	the primary	notes on the	ion	ng	sion	cy	rs	nce	
	Primary colours eg	colours of	Reflection .	Demon	Read	maki	Appre		dicti	
	Red, Green, Blue.	light	- Reads words	stration	ing.	ng	ciatio		onar	
	Secondary colours	-explains	and sentences		Dra	Criti	n		у	
	eg yellow, Magenta,	the	about light	Observ	wing	cal	Respo		130	
	Cyan	properties of	energy.	ation		thin	nsibili		_	
	Complementary	primary		Discove		king.	ty.		137	
	colours eg Blue and	colours of		ry		Prob	Care			
	Yellow, Red and	light.		method		lem	Takin		MK	
	Cyan, Green and	-explain				solvi	g		,Fou	
	Magenta.	why certain				ng	decisi		ntai	
	Why certain colours	colours				Effec	on		n,	
	appear the way they	appear the				tive	Makin		,SC.	
	appear.	way they				com	g right		Bk 7	
		appear.				mun	choice			
						icati	s.			
						on	Logic			

5	Simple optical	-give the	-Writes guided	Discuss	Writi	Deci	Fluen	Plane	Scie	
	instruments	meaning of	notes on the	ion	ng	sion	cy	mirror	nce	
	They use light to	simple	Simple optical	Demon	Read	maki	Appre	s,	dicti	
	function.	optical	instruments	stration	ing.	ng	ciatio	lenses	onar	
	E.g. plane mirrors,	instruments	- Reads words		Dra	Criti	n	,	у	
	lenses		and sentences	Observ	wing	cal	Respo	Curve	130	
	X-tics of images	-identifies	about light	ation		thin	nsibili	d	_	
	formed in plane	examples of	energy.	Discove		king.	ty.	mirror	137	
	mirrors.	optical		ry		Prob	Care	s.		
	Uses of plane	instruments		method		lem	Takin		MK	
	mirrors.					solvi	g		,Fou	
	Curved mirrors	-identifies				ng	decisi		ntai	
	Types of curved	characteristi				Effec	on		n,	
	mirrors	cs of images				tive	Makin		,SC.	
		formed in a				com	g right		Bk 7	
		plane				mun	choice			
		mirror.				icati	s.			
		-identifies				on	Logic			
		uses of								
		plane								
		mirrors.								
		-draws and								
		names types								
		of curved								
		mirrors								
		-shows the								
		effect of								
		light on								
		curved								
		mirrors.								

7	1	Real and virtual	-explains	-Writes guided	Discuss	Writi	Deci	Fluen	Model	Scie
		images	the real and	notes on the	ion	ng	sion	су	of a	nce
		Periscope	virtual	Periscope	Demon	Read	maki	Appre	perisc	dicti
		Pinhole camera	images	- Reads words	stration	ing.	ng	ciatio	ope,	onar
		Making a pinhole	-explains	and sentences		Dra	Criti	n	a	у
		camera.	the working	about light	Observ	wing	cal	Respo	pinhol	130
		x-tics of images	of periscope.	energy.	ation		thin	nsibili	e	_
		formed with a	-explains		Discove		king.	ty.	camer	137
		pinhole camera.	the process		ry		Prob	Care	a,	
			of making a		method		lem	Takin	tins,	MK
			pinhole				solvi	g	tracin	,Fou
			camera.				ng	decisi	g	ntai
			-explains				Effec	on	paper	n,
			the x-tics of				tive	Makin		,SC.
			images				com	g right		Bk 7
			formed on a				mun	choice		
			pinhole				icati	s.		
			camera.				on	Logic		

2	Refraction of light.	-gives the	-Writes guided	Discuss	Writi	Deci	Fluen	Α	Scie	
_	It is the bending of	meaning of	notes on the	ion	ng	sion	су	glass,	nce	
	light as it moves	refraction of		Demon	Read	maki	Appre	A	dicti	
	from one	light.	light.	stration	ing.	ng	ciatio	ruler,	onar	
	transparent	-identifies	- Reads words		Dra	Criti	n	Glass	v	
	medium to another.	the	and sentences	Observ	wing	cal	Respo	prism	130	
	Principles of	principles of		ation		thin	nsibili	s,	_	
	refraction	refraction.	energy.	Discove		king.	ty.		137	
	Effects of refraction.	-identifies		ry		Prob	Care			
	Prisms and light	the effects of		method		lem	Takin		MK	
	spectrum.	refraction.				solvi	g		,Fou	
	Refraction of white	-explains				ng	decisi		ntai	
	light by glass prism.	what				Effec	on		n,	
		spectrum is.				tive	Makin		,SC.	
		-explains				com	g right		Bk 7	
		what				mun	choice			
		dispersion				icati	s.			
		of light is.				on	Logic			
		-draws and								
		explains								
		refraction of								
		white light								
		by glass								
		prism.								

3	Refraction of light	-explains	-Writes guided	Discuss	Writi	Deci	Fluen	Glass	Scie
	in water	refraction of	notes on the	ion	ng	sion	cy	prism	nce
	Refraction through	light in	Refraction of	Demon	Read	maki	Appre	s	dicti
	a rectangular glass	water.	light in water	stration	ing.	ng	ciatio		onar
	prism,	-explains	- Reads words		Dra	Criti	n		у
	The formation of the	refraction of	and sentences	Observ	wing	cal	Respo		130
	rainbow.	light by a	about light	ation		thin	nsibili		_
		rectangular	energy.	Discove		king.	ty.		137
		glass prism.		ry		Prob	Care		
		-explains		method		lem	Takin		MK
		the				solvi	g		,Fou
		formation of				ng	decisi		ntai
		a rainbow.				Effec	on		n,
						tive	Makin		,SC.
						com	g right		Bk 7
						mun	choice		
						icati	s.		
						on	Logic		

4	Lenses	-explains	-Writes guided	Discuss	Writi	Deci	Fluen	Lense	Scie	
		-	_			l _				
	Types of lenses	what lenses	notes on the	ion	ng	sion	cy	s.	nce	
	Convex and	are.	Lenses	Demon	Read	maki	Appre		dicti	
	concave.	-identifies	- Reads words	stration	ing.	ng	ciatio		onar	
	The effect of lenses	the types of	and sentences		Dra	Criti	n		y	
	on beams of light.	lenses.	about light	Observ	wing	cal	Respo		130	
	X-tics of images	-draws the	energy.	ation		thin	nsibili		_	
	formed by the	two types of	<u> </u>	Discove		king.	ty.		137	
	lenses.	lenses		ry		Prob	Čare			
	Uses of lenses.	-explains		method		lem	Takin		MK	
	Coos of felloss.	the effect of		IIIcuita		solvi	g		,Fou	
		beams of					decisi		ntai	
		light on				ng Effec				
		_					on Molrie		n,	
									1	
		-							Bk 7	
		the x-tics of					choice			
		images				icati	s.			
		formed by				on	Logic			
		the lenses.								
		-explains								
		-								
		iciioco.								
		formed by				tive com mun icati on			,SC. Bk 7	

5	The lens camera.	-draws and	-Writes guided	Discuss	Writi	Deci	Fluen	A lens	Scie	
	Structure of the	explains the	notes on the	ion	ng	sion	cy	camer	nce	
	lens camera.	working of a		Demon	Read	maki	Appre	a.	dicti	
	Parts of the camera	lens camera.	- Reads words	stration	ing.	ng	ciatio		onar	
	and their functions.	-explains	and sentences	1.	Dra	Criti	n		у	
	X-tics of images	the x-tics of	about light	Observ	wing	cal	Respo		130	
	formed by a lens	images	energy.	ation		thin	nsibili		_	
	camera.	formed by		Discove		king.	ty.		137	
	Other optical	the lens		ry		Prob	Care			
	instruments eg	camera.		method		lem	Takin		MK	
	microscope etc	-identifies				solvi	g		,Fou	
		other optical				ng	decisi		ntai	
		instruments				Effec	on		n,	
		•				tive	Makin		,SC.	
						com	g right		Bk 7	
						mun	choice			
						icati	S.			
						on	Logic			

8	1	37	The human eye Structure of the human eye. Front view Cross section view. Uses of the parts of the eye.	-draws the human eye-front and cross section viewidentifies the parts of the human eye and their functions.	-Writes guided notes on the human eye - Reads words and sentences about light energy.	Discuss ion Demon stration . Observ ation Discove ry method	Writi ng Read ing. Dra wing	sion	Fluen cy Appre ciatio n Respo nsibili ty. Care Takin g decisi on Makin g right choice s. Logic	A chart	Intro duct ion to biolo gy pg 130 - 133 Scie nce dicti onar y pg 86 - 87	
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2	The human eye	-explains	-Writes guided	Discuss	Writi	Deci	Fluen	A	Intro	
	X-tics of images	the X-tics of	notes on the	ion	ng	sion	су	chart,	duct	
	formed by the eye.	images	human eye	Demon	Read	maki	Appre	a lens	ion	
	Comparison btn an	formed by	- Reads words	stration	ing.	ng	ciatio	camer	to	
	eye and camera.	the eye.	and sentences		Dra	Criti	n	а	biolo	
	Compare and eye	-compares	about light	Observ	wing	cal	Respo		gy	
	and a pinhole	the	energy.	ation		thin	nsibili		pg	
	camera.	mammalian		Discove		king.	ty.		130	
		eye and the		ry		Prob	Care		_	
		lens camera.		method		lem	Takin		133	
		-Compares				solvi	g			
		the				ng	decisi		Scie	
		mammalian				Effec	on		nce	
		eye and a				tive	Makin		dicti	
		pinhole				com	g right		onar	
		camera.				mun	choice		y pg	
						icati	s.		86 -	
						on	Logic		87	

3	The human eye	-identifies	-Writes guided	Discuss	Writi	Deci	Fluen	A	Intro	
	Diseases of the	the diseases	notes on the	ion	ng	sion	cy	chart	duct	
	human eye. Eg	of the eye.	human eye	Demon	Read	maki	Appre	showi	ion	
	River blindness	-explains	- Reads words	stration	ing.	ng	ciatio	ng eye	to	
	Disorders/defects of	the signs	and sentences		Dra	Criti	n	defect	biolo	
	the eye.eg short	and	about light	Observ	wing	cal	Respo	s.	gy	
	sight etc	symptoms of	energy.	ation		thin	nsibili		pg	
	Care of the human	the eye		Discove		king.	ty.		130	
	eye.	diseases.		ry		Prob	Care		-	
		-explains		method		lem	Takin		133	
		and draws				solvi	g			
		the eye				ng	decisi		Scie	
		defects.				Effec	on		nce	
		-explains				tive	Makin		dicti	
		how to care				com	g right		onar	
		for the eyes.				mun	choice		y pg	
						icati	s.		86 -	
						on	Logic		87	

4		Interdependence	-explains	-Writes guided	Discuss	Writi	Deci	Fluen	Α	MK	
		Components of the	the meaning	notes on	ion	ng	sion	су	chart	,Fou	
		environment.	of	Interdependen	Demon	Read			showi	ntai	
		Plants depend on	interdepend	ce	stration	ing.	ng	ciatio	ng	n,	
		animals.	ence.	- Reads words	1.		Criti	n	interd	,SC.	
		Animals depend on	-explains	and sentences	Observ		cal	Respo	epend	Bk 7	
		plants	how plants	about	ation		thin	nsibili	ence		
	lt l	Animals depend on	depend on	interdependen	Discove		king.	ty.			
	let	other animals	animals.	ce in the	ry		Prob	Care			
	l Hu	Plants depend on	-explains	environment	method		lem	Takin			
	1.01	other plants.	how animals		Field		solvi	g			
	lVí	Interdependence of	depend on		trips		ng	decisi			
	G	living things and	plants.				Effec	on			
	TT.	non living things.	-explains				tive	Makin			
	EN.		how animals				com	g right			
	IM S i		depend on				mun	choice			
	ONO		other				icati	s.			
	ENVIRONMENT e of things in th		animals.				on	Logic			
	VV of 1		-explains								
	日 S E		how plants								
	THE		depend on								
	T.		other								
	)et		plants.								
	Jet		-explains								
	erc		interdepend								
	THE ENVIRONMENT. Interdependence of things in the environment		ence of								
			living and								
			non living								
			things.		1						

	Т		T	T	T	1	T	ı	ı	1	,
5		Agro forestry	-explains	-Writes guided	Discuss	Writi	Deci	Fluen		MK	
		Importance of agro	what agro	notes on Agro	ion	ng	sion	cy		,Fou	
		forestry	forestry is.	forestry	Demon	Read	maki	Appre		ntai	
		Indigenous trees	-explains	- Reads words	stration	ing	ng	ciatio		n,	
		X-tics of indigenous	the	and sentences			Criti	n		,SC.	
		trees.	importance	about	Observ		cal	Respo		Bk 7	
		Exotic trees	of agro	interdependen	ation		thin	nsibili			
		Xtics of exotic trees	forestry.	ce in the	Discove		king.	ty.			
			-explains	environment	ry		Prob	Čare			
			what		method		lem	Takin			
			indigenous		Field		solvi	g			
			trees are.		trips		ng	decisi			
			-explains		02.10.0		Effec				
			the				tive	Makin			
			characteristi				com	g right			
			cs of				mun	choice			
			indigenous				icati	S.			
			trees.				on	Logic			
			-explains				011	Logic			
			_								
			the								
			characteristi								
			cs of exotic								
			trees.								

9	1	,	Tree growing	-explains	-Writes guided	Discuss	Writi	Deci	Fluen	Α	MK	
			A nursery bed	the process	notes on the	ion	ng	sion	су	chart	,Fou	
			Care for seedlings	of tree	Tree growing	Demon	Read	maki	_	showi	ntai	
			Hardening off.	growing.	- Reads words	stration	ing	ng	ciatio	ng a	n,	
			Transplanting	-explains	and sentences			Criti	n	nurse	,SC.	
		'	Types of nurseries	the meaning	about	Observ		cal	Respo	ry bed	Bk 7	
		;	Seed bed	of nursery	interdependen	ation		thin	nsibili			
			Starting a tree	bed.	ce in the	Discove		king.	ty.			
			nursery bed.	-explains	environment	ry		Prob	Care			
				starting a		method		lem	Takin			
				tree nursery		Field		solvi	g			
				bed.		trips		ng	decisi			
				-describes				Effec	on			
				hardening				tive	Makin			
				off.				com	g right			
				-explains				mun	choice			
				types of				icati	s.			
				nurseries				on	Logic			
				-give the								
				meaning of								
				a seed bed.								

	Care for trees in agro forestry Advantages of pruning Advantages of thinning. Why staking Crop spacing How to control weeds.	-explains the ways of caring for plantsgives the advantages of thinningexplains the advantages of thinninggives reasons for staking crops.	-Writes guided notes on the Tree growing - Reads words and sentences about interdependen ce in the environment	Discuss ion Demon stration . Observ ation Discove ry method Field trips	Writi ng Read ing	Deci sion maki ng Criti cal thin king. Prob lem solvi ng Effec tive com mun icati on	Fluen cy Appre ciatio n Respo nsibili ty.	Real plants in the garde n	MK ,Fou ntai n, ,SC. Bk 7	
3	Tree pests. Vermin Crop pests Methods of controlling pests Crop diseases	-describes a pest and a verminidentifies examples of crop pests -explains the methods of controlling pestsidentifies examples of crop diseases	-Write guided notes on the Tree growing - Reads words and sentences about interdependen ce in the environment	Discuss ion Demon stration . Observ ation Discove ry method	Writi ng Read ing	Deci sion maki ng Criti cal thin king. Prob lem solvi ng	Fluen cy Appre ciatio n Respo nsibili ty.		MK ,Fou ntai n, ,SC. Bk 7	
4	Harvesting of trees. Starting and	-identifies proper ways	-Write guided notes on the	Discuss ion	Writi ng	Deci sion	Fluen cy	A chart	MK ,Fou	

		- C	II	D	Dand.	1. !	Δ	-1		
	managing a	of	Harvesting of	Demon	Read	maki		showi	ntai	
	school/home wood	harvesting	trees	stration	ing	ng	ciatio	ng	n,	
	project.	trees.	- Reads words			Criti	n	metho	,SC.	
	Factors considered	-explains	and sentences	Observ		cal	Respo	ds of	Bk 7	
	when choosing trees	the factors	about	ation		thin	nsibili	harve		
	for planting.	considered	interdependen	Discove		king.	ty.	sting		
	Maintaining a tree	when	ce in the	ry		Prob	Care	trees.		
	and crop growing	starting a	environment	method		lem	Takin			
	project.	tree and				solvi	g			
		crop				ng	decisi			
		growing				Effec	on			
		project.				tive	Makin			
		-explain				com	g right			
		how to				mun	choice			
		maintain a				icati	s.			
		tree and				on				
		crop								
		growing								
		project.								
5	Preparing wood for	-explain	-Write guided	Discuss	Writi	Deci	Fluen		MK	
	different purposes	how to	notes on the	ion	ng	sion	cy		,Fou	
	and proper storage	prepare	Harvesting of	Demon	Read	maki			ntai	
	Uses of wood.	wood for	trees	stration	ing	ng	ciatio		n,	
	Wood for timber.	firewood, for	- Reads words	Stration	mg	Criti	n		,SC.	
	Wood for electricity	wood for	and sentences	Observ		cal	Respo		,sc. Bk 7	
	telephone poles.	electricity,	about	ation		thin	nsibili		DK I	
		timber.								
	Seasoning		interdependen	Discove		king.	ty.			
	Record keeping	-explain the	ce in the	ry		Prob	Care			
	Types of records	meaning of	environment	method		lem	Takin			
	Importance of	seasoning				solvi	g			
	keeping farm	timber.				ng	decisi			
	records.	-identify				Effec	on			
	Young farmers club.	reasons for				tive	Makin			
		seasoning				com	g right			
		timber.				mun	choice			

							•	,			
				-explains				icati	s.		
				what record				on	Logic		
				keeping is.							
				-lists types							
				of farm							
				records.							
				-explains							
				the							
				importance							
				of keeping							
				farm							
				records.							
				-explains							
				the roles of							
				young							
				farmers							
				clubs.							
10	1		Community	-explains	-Write guided	Discuss	Writi	Deci	Fluen	MK	
			Health	the meaning	notes on	ion	ng	sion	су	,Fou	
		#	Social problems.	the terms	Community	Demon	Read	maki		ntai	
		ti (	Community health	community,	Health	stration	ing	ng	ciatio	n,	
		11a	Methods of	health,	- Reads words			Criti	n	,SC.	
		pu [ft]	preventing diseases	social	and sentences	Observ		cal	Respo	Bk 7	
		populs,	in the community.	problems,	about	ation		thin	nsibili		
		, y		community	population	Discove		king.	ty.		
		nnity life. and		health.	and health.	ry		Prob	Čare		
		unu 7 E n		-identifies		method		lem	Takin		
		lii ji		the methods				solvi	g		
		The community,population and family life. Population and health.		of				ng	decisi		
		~ ~ 5		preventing				Effec	on		
		The and Pop		diseases in				tive	Makin		
		1 a F		the				com	o rioht		

2	Sicknesses in a	-explains	-Write guided	Discuss	Writi	Deci	Fluen	A	MK	
	home.	types of	notes on	ion	ng	sion	cy	chart	,Fou	
	Types of common	common	Sicknesses in	Demon	Read	maki	Appre	showi	ntai	
	sicknesses in a	sickness in	a home.	stration	ing	ng	ciatio	ng	n,	
	home.	a home.	- Reads words			Criti	n	certai	,SC.	
		-identifies	and sentences	Observ		cal	Respo	n	Bk 7	
		examples of	about	ation		thin	nsibili	sickne		
		types of the	population	Discove		king.	ty.	sses		
		common	and health.	ry		Prob	Care			
		sicknesses		method		lem	Takin			
		in a home.				solvi	g			
		-explains				ng	decisi			
		the cause of				Effec	on			
		the				tive	Makin			
		sicknesses.				com	g right			
						mun	choice			
						icati	s.			
						on	Logic			

3	STDS Hereditary diseases Causes of sickness in a home. Control of common sicknesses. Common health and social problems. How to avoid health and social problems. Life skills to avoid social and health problems.	-identifies examples of types of the common sicknesses in a homeexplains the cause of the sicknessesexplains the control of the common sicknesses in a homeexplain	-Write guided notes on the STDS - Reads words and sentences about population and health.	Discuss ion Demon stration . Observ ation Discove ry method	Writi ng Read ing	Deci sion maki ng Criti cal thin king. Prob lem solvi ng Effec tive com mun icati	Fluen cy Appre ciatio n Respo nsibili ty. Care Takin g decisi on Makin g right choice s.		MK ,Fou ntai n, ,SC. Bk 7	
4	Sexual deviations. Reasons why people practice sexual deviations Ways of avoiding sexual deviations.	common health and social resplans -explains the meaning of sexual deviationsidentifies examples of sexual deviationsgives reasons for sexual	-Write guided notes on the Sexual deviations Reads words and sentences about population and health.	Discuss ion Demon stration . Observ ation Discove ry method	Writi ng Read ing	Deci sion maki ng Criti cal thin king. Prob lem solvi	Respo nsibili ty. Care Takin g decisi on Makin g right choice	Prese ntatio n showi ng effects of sex deviati ons.	MK ,Fou ntai n, ,SC. Bk 7	

1 =	I	1 0		I ·		· .	l =1		
5	Population and	-defines	-Write guided	Discuss			Fluen	MK	
	health concerns	population	notes on Poor	ion	ng	sion	cy	,Fou	
	Poor sanitation	and health	sanitation	Demon	Read	maki		ntai	
	Antisocial behavior	concerns.	- Reads words	stration	ing	ng	ciatio	n,	
	Violence	-identifies	and sentences			Criti	n	,SC.	
	Types of violence.	examples of	about	Observ		cal	Respo	Bk 7	
		population	population	ation		thin	nsibili		
		and health	and health.	Discove		king.	ty.		
		concerns.		ry		Prob	Care		
		-identifies		method		lem	Takin		
		indicators of				solvi	g		
		poor				ng	decisi		
		sanitation.				Effec	on		
		-identifies				tive	Makin		
		activities to				com	g right		
		poor				mun	choice		
		sanitation.				icati	s.		
		-explains				on	Logic		
		the meaning							
		of antisocial							
		behavior							
		-explains							
		examples,							
		causes and							
		effects of							
		antisocial							
		behavior.							
		-identifies							
		the activities							
		to address							
		antisocial							
		behavior.							
		DEIIAVIUI.							
							1		

	Poor water supply Water associated diseases	-describe poor water supply -explain water associated diseases. Identify activities to address poor water supply	-Write guided notes on Poor water supply - Reads words and sentences about population and health.	Discuss ion Demon stration . Observ ation Discove ry method	Writi ng Read ing	Deci sion maki ng Criti cal thin king. Prob lem solvi ng	Appre ciatio n Respo nsibili ty.	MK ,Fou ntai n, ,SC. Bk 7	
2	Inadequate food. Food security Activities to address health concern. Care for home Health survey	-explains the meaning of inadequate foodexplains the causes of inadequate foodgives the meaning of food securityidentifies the activities to address inadequate foodexplains the activities to address	- Reads words and sentences about population and health.	Discuss ion Demon stration . Observ ation Discove ry method	Writi ng Read ing	Deci sion maki ng Criti cal thin king. Prob lem solvi ng Effec tive com mun icati on	Respo nsibili ty. Care Takin g decisi on Makin	MK ,Fou ntai n, ,SC. Bk 7	

3 Health education -explains Discuss Writi Deci A	Appre MK	
Having a family budget.  Advantages of family budgeting.  Having a family budgeting.  Health education education -explains about stration ing ng Read maki ng population and health.  Demon Read maki ng population of the family budgetgives the advantages of having a family ng population and health.  Discove king. To prob go family method lem described to the family method of the population of having a family ng population and health.	ciatio ,Formalistic ,Formalistic ,Formalist ,Formalist , Formalist	

4	Demography.		Discuss	Writi	Deci	Fluen	MK
	Importance of	- Reads words	ion	ng	sion	cy	,Fou
	demography.	and sentences	Demon	Read	maki	Appre	ntai
	Housing	about	stration	ing	ng	ciatio	n,
	information.	population			Criti	n	,SC.
	Available health	and health.	Observ		cal	Respo	Bk 7
	services.		ation		thin	nsibili	
	-immunization		Discove		king.	ty.	
	-Family planning		ry		Prob	Care	
	-treatment of		method		lem	Takin	
	infections				solvi	g	
	Provision of water.				ng	decisi	
	Control of epidemic				Effec	on	
	diseases				tive	Makin	
					com	g right	
					mun	choice	
					icati	s.	
					on	Logic	