SCIENCE SCHEMEE OF WORK
STANDARD 7, 2020

SCIENCE SCHEMES OF WORK STANDARD 7, 2020

TERM 1

WEEK	LESSON	TOPIC/SUB TOPIC	OBJECTIVES	T/L ACTIVITIES	T/L RESOURCES	T/L AIDS	REMARK
1	1 - 5	Opening and Revisions					
2	1 - 5	HUMAN BODY Circulatory system.	The pupils should be able to: Identify parts of the circulatory systems. Identify components of the blood and their functions. Identify types of blood vessels and their functions. Describe the structure and function of the heart.	Draw and discuss parts of the circulatory system. Discuss components of blood and their functions. Discuss types of blood vessels and their functions. Explain the structure and function of the heart	Primary Science pupils book pg 1. Understanding science pupils book pg 1	Charts Text book Diagrams	
3	1 - 5	HEALTH EDUCATION Drug abuse. Myths and misconceptions on HIV/AIDS	The learner should be able to: Explain what a drug is. Explain drug abuse and misuse. Describe health and social effects of drug abuse.	Explain what drug is. Explain drug misuse and abuse. Discuss health and social effects of drug abuse.	Primary science pupils book pg 13 Understanding science pupils book pg 11	Local environment chart	

			Dispel myths and misconceptions on HIV/AIDS	Discuss myths and misconceptions on HIV/AIDS			
4	1 - 5	ENVIRONMENT	The learner should be able to: State the meaning of the environment. Name the major components of the environment.	Explain the meaning of the environment. Discuss major components of the environment.	Primary science pupils book pg 33 Understanding science pupils book pg 22	Local environment.	
5	Revisions and End of January exams						
6	1 - 5	PLANTS Interdependence between plants and animals. Crop pests.	The learner should be able to: Explain interdependence between plants Explain interdependence between plants and animals. Explain what food chain is. Explain crop pests. State crop pests, their effects and control measures	Explain interdependence between plants. Discuss interdependence between plants and animals. Explain food chain. Explain crop pests. Discuss crop pests their effects and control measures.	Primary science pupils book pg 42 Understanding pupils book pg 25	Local environment.	
7	Mid term exams						
8	1 - 5	ANIMALS Livestock parasites.	The pupils should be able to: Name some external and internal parasites.	Discuss some internal and external parasites.	Primary science pg 67 Understanding science pg 38	Animal Charts Local environment	

		Human intestinal worms.	State the effects of parasites on livestock. Control some livestock parasites. Control some human intestinal worms.	Explain effects of parasites on livestock. Discuss ways of controlling some livestock parasites and some human intestinal worms.			
9	1 – 5	WATER. Water pollution. Effects of water pollution. Water conservation.	By the end of the lesson the learner should be able to: State how water gets polluted. Describe effects of water pollution. Identify ways of controlling water pollution. Describe ways of conserving water. Appreciate importance of conserving water.	Discuss how water gets polluted. Explain effects of water pollution. Explain ways of controlling water pollution. Discuss ways of conserving water.	Primary science. Understandin g science.	Water Local environment.	
10	1 – 5	SOIL Soil fertility.	By the end of the topic, the learner should be able to: Explain the meaning of fertilizers.	Explain the meaning of the fertilizers. Explain and classify fertilizers into straight & compound.	Primary science Understandin g science.	Soil fertilizers.	

			Classify fertilizers into straight and compound. Identify different types of manure. State the advantages and disadvantages of manures and fertilizers.	Explain and classify fertilizers into straight & compound Discuss different types of manure. Discuss advantages and disadvantages of manures and fertilizers.			
11	1 – 5	ENERGY Electricity.	By the end of the lesson the learner should be able: Name sources of electricity. Make a simple circuit. Investigate good and poor conductors of electricity. Identify electrical appliances in homes and their uses. Describe safety measures when dealing with electricity. Demonstrate safety measures when there is lightning.	Discuss sources of electricity. Make a simple circuit. Investigate good and poor conductors of electricity. Discuss electrical appliances in homes and their uses. Discuss safety measures when dealing with electricity. Discuss safety measures when there is lightning.	Primary science Understanding science.	Bulbs Wires Dry cells	

12 & 13	Revisions and Preparations for End Term Exams
14	End Term 1 Exams and Closing

TERM 2

WEEK	LESSON	TOPIC/SUB TOPIC	OBJECTIVES	T/L ACTIVITIES	T/L RESOURCE	REFERENCE	REMARK
1	Opening and Revisions						
2	1 - 5	ANIMALS Livestock parasite. Human intestinal worms.	By the end o the lesson the learner should be able to: Name some internal and external parasites. State the effects of parasites on livestock. Control some livestock parasites. Control some human intestinal worms	Stating and naming some internal and external worms. Naming the effects of parasites on livestock. Stating the methods of controlling some livestock parasites Stating some ways to control some human intestinal worms	A chart Pictures on internal and external parasites Some internal and external parasites	Understanding science pupils book 7 pg 38 - 44 Quick reading science book 7 pg 38 - 44	
3	1 - 5	WATER Water pollution Effects of water pollution	State how water gets polluted. Describe effects of water pollution. Identify ways of controlling water pollution.	State the meaning of water pollution and ways in which water is polluted. Stating effects of water pollution. Discuss ways controlling water pollution.	Water Soil A chart	Understanding science pupils book 7 pg 46 - 51 Quick reading science book 7 pg 46 - 51	

		Water conservation	Describe ways of conserving water Appreciate the importance of conserving water.	Stating ways of conserving water and discuss them			
4	1- 5	SOIL Soil fertility.	Explain the meaning of fertilizer Classify fertilizers into straight and compound Identify different type of manure. State the advantages and disadvantages of using fertilizers and manure	Defining meaning of fertilizer. stating types of fertilizers Identifying the different types of fertilizers. Identifying the different types of manure. Discussing the different advantages and disadvantages of manures and fertilizers. Preparing a compound manure.	A chart Manure Artificial fertilizers Green farmyard manure.	Understanding science pupils book 7 pg 53 - 57 Quick reading science book 7 pg 54 – 57	

5 and 6	1 - 5 1 - 5	ENERGY Electricity	Name sources of electricity Make a simple circuit Investigate good and poor conductors of electricity Identify electrical appliances at home and their uses. Describe safety measures when dealing with electricity. Demonstrate safety measures when there is lightning.	Naming sources of electricity. Making a simple. Investigating good and poor conductors of electricity. Identifying electrical appliances in homes and their uses. Describing safety measures when dealing with electricity and when there is lightning	A chart Wires Batteries Wood Plastic Metal Paper Bulbs	Understanding science pupils book 7 pg 58 - 67 Quick reading science book 7 pg 59 - 68	
7	1 - 5	Revision and mid term exams					
8	1 - 5	PROPERTIES OF MATTER. Dissolving solids in water Mixing liquids. Magnet and non magnetic materials.	By the end of the lesson the learner should be able to: Identify solids that dissolve and those that do not dissolve in water. Identify liquids which mix and those that do not mix.	Dissolving solids in water. Mixing liquids Identifying magnetic and non magnetic materials. Separating mixtures.	A chart Salt Sugar Water Soil Paraffin Spirit Oil Iron fillings Metals Magnets Wood	Understanding science pupils book 7 pg 69 - 75 Quick reading science book 7 pg 71 - 77	

		Separating mixtures	Identify magnetic and non magnetic materials. Separate mixtures		plastic paper		
9 and 10	1 - 5 1 - 5	MAKING WORK EASIER. Friction Parts of a lever.	Investigate friction. State advantages and disadvantages of friction. Demonstrate ways of reducing and increasing friction. Identify positions of fulcrum, load and effort in different levers.	Defining friction. Investigating and listing advantages and disadvantages of friction. Demonstrating ways of reducing and increasing friction. Identify positions of fulcrum, load and effort in different levers.	Chart. Claw hammer. Crow bar Wheelbarrow Spade Oil grease. Rollers	Understanding science pupils book 7 pg 76 - 85 Quick reading science book 7 pg 79 - 86	
11 & 12	1 - 5 1 - 5	**REVISION** PLANTS. Interdependence between plants and animals. Crop pests.	Explain interdependence between plants. Explain interdependence between plants and animals. Explain what a food chain is. Explain meaning of crop pests. Identify some crop pests, their effects and control measures.	Defining interdependence between plants. Defining interdependence between plants and animals. Defining a food chain and giving examples. Discussing crop pests, their effects and control measures.	Food (different types.) Animal waste Branches. Various crop pests. Plants invaded by pests. A chart.	Understanding science pupils book 7 pg 25 - 36 Quick reading science bk 7 pg 29 - 36	

13	1 - 5	**REVISION** ENVIRONMENT Meaning of the environment Components of the environment	State the meaning of the environment. Name major components of the environment.	Defining environment Stating and discussing the major components of the environment and their uses.	Water Soil Plants Pictures of animals	Understanding science pupils book 7 pg 22 - 24 Quick reading science bk 7 pg 24 - 27	
14	1 - 5	Revision and end term 11 exams					

TERM 3

WEEK	LESSON	TOPIC	SUB TOPIC	OBJECTIVES	T/L ACTIVITIES	T/L AIDS	REFFEENCES	REMARK
1	1 - 5	REVISION						
2	1 - 2	ELECTRICITY	Sources of electricity. (static)	The learner to state any two sources of static electricity. Define static electricity	Observation. Sampling Experimentation answers	A plastic ruler Small pieces of paper.	Primary science pupils book 7 page 106 - 107 Science in Africa pupils book 7	

	3 - 4	Electricity	Current electricity	The learner should be able to: State any two sources of current electricity. Define the term current electricity.	Experimentation. Answer Observation	Car battery Torch battery Generators .	Primary science pupils book 7 page 110 - 112 Science in action pupils book 7	
	5	Electricity	Sources of current electricity. (torch, battery)	The learner should be able to: Name sources of current electricity. Define the term current electricity.	Discussion Observation. Question and answer Explanation	Torch battery A bulb	Primary science pupils book 7 pg 112 Science in action pupils book 7	
3	1	Electricity.	Car battery	State the type of energy found in a car battery. State uses of a car battery	Discussion Answers Explanation Questions	Car battery	Primary science pupils book 7 pg 112 Science in action pupils book 7	
	2	Electricity	Generators	State the type of energy found in generators.	Discussion. Explanation Q/Answer	A generator	Primary science pupils book 7 pg 113	

				Give any uses of generators.			Science in action pupils book 7	
	3	Electricity	Bicycle dynamo	State the types of energy in a dynamo. State the uses of a generator	Discussion Explanation. Q/Answer	A bicycle dynamo	Primary science pupils book 7 pg 113 Science in action pupils book 7	
	4	Electricity	Hydroelectric petrol and diesel generators.	The learner to state how petrol and diesel generators operate	Explanation Demonstration Observation	Pictures of generators.	Primary science pupils book 7 pg 113 - 114 Science in action pupils book 7	
	5	Electricity	Window driven solar energy geothermal	The learner to state how solar geothermal and wind driven generators operate.	Q/Answer Observation Explanation	A solar panel Pictures of a geothermal generator	Primary science pupils book 7 pg 114 - 115 Science in action pupils book 7	
4	1	Electricity	Simple electric circuit.	The learner to construct a simple electric circuit.	Discussion Q/Answers Explanation	A bulb, dry cells, wires	Primary science pupils book 115 - 117 Understanding science book 7	

	2	Electricity.	Good and poor conductors of electricity.	The learner should be able to distinguish good conductors from poor conductors.	Discussion Q/Answer Explanation.	Rubbers Wires Plastics Dry cells Bulbs etc		
5-7	Revisions and Class work: In door and Out door	Revisions and Class work: In door and Out door	Revisions and Class work: In door and Out door	The learner should be able to Revise and do Class work: In door and Out door	Revisions and Class work: In door and Out door		Primary science pupils book Understanding science book	
8	Preparations for End Term Exams							
9	End Term Exams and Closing							