

**P.7 SCIENCE SCHEME OF WORK**  
**TERM III 2023**

WK	PD	TOPIC	S/ TOPIC	COMPENTENCES		CONTENT	METHODS	L/ACTIVITI ES	L/SKILLS	L/AIDS	REF	RM
				SUBJ	LANGUA GE							
1	1	Resources in the environment	Land as a resource	Defining a resource Mentioning types of resources	Reading words and sentences Answering questions	<p>A resource is anything that man uses to satisfy his needs          Resources are of two types          Renewable and non-renewable          Nonliving things as resources</p> <p><b>Land/ Soil</b></p> <ul style="list-style-type: none"> <li>- Uses of land/ soil as resource</li> <li>- How man uses soil/ land as a resource.</li> <li>- Ways how man uses land/soil as a resource.</li> <li>- Dangers of using land/soil poorly.</li> </ul>	Guided discovery Explanation Discussion	<p>Defining a resource          Describing land/soil as a resource</p>	<p>Problem solving          Logical thinking</p>	Environment	Baroque Science 6 Pg. 126	
2		Resources in the environment	Rocks and minerals	Mentioning uses of rocks Examples of minerals Uses of minerals	Reading words and sentences Answering questions	<p><b>Uses of rocks</b></p> <p>Raw materials for building          Contain minerals          Weather to form soil</p> <p><b>Minerals and their uses</b></p> <ul style="list-style-type: none"> <li>- Iron for making iron bars, hoes, nails, etc</li> <li>- Gold for jewelry</li> <li>- Copper – Electric wires , bullets, refrigerators etc</li> <li>- Aluminum, saucepan, tins, roofing sheets</li> <li>- Mercury- In thermometers</li> <li><b>Alloys:</b>          An alloy is a mixture of two or more metals          Brass- Copper and zinc          Bronze- Copper and tin          Steel – iron and carbon          Solder – lead and copper</li> </ul>	Guided discovery Explanation Discussion	<p>Mentioning uses of rocks          Mentioning minerals and their uses          Alloys</p>	<p>Problem solving          Logical thinking</p>	metals	Baroque Science 6 Pg. 127-128	

					Conservation of minerals - Using alloys - Recycling - Painting - Greasing/ oiling							
3	Resources in the environment	The sun as a resource	Mentioning forms of energy from the sun Uses of sun as a resource	Reading words and sentences Answering questions	The sun is the main source of energy in the environment. <b>Forms of energy from the sun</b> Heat energy Light energy <b>Uses of the sun</b> Enables us to see Helps in photosynthesis Produce solar energy Dries our clothes Formation of Vitamin D Helps in formation of rainfall.	Guided discovery Explanation Discussion	Mentioning forms of energy resources from sun Mentioning uses of sun	Problem solving Logical thinking	Metals	Comprehensive Science Bk 7 Pg 48		
4	Resources in the environment	Energy resource from water	Mentioning energy resource water and their uses	Reading words and sentences Answering questions	<b>Energy resources from water</b> HEP (Hydro Electric Power) Steam Tidal energy <b>Uses of these resources</b> HEP Steam Tidal energy	Guided discovery Explanation Discussion	Mentioning forms of energy resources from water and their uses	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 49		
5	Resources in the environment	Energy Resources from fossil fuel	Mentioning energy resources from fossil fuels and their uses	Reading words and sentences Answering questions	Fossil fuel are energy resources which were formed from living things which lived and died long time ago. E.g Petroleum or crude oil - Products of crude oil - Uses of these products Coal - Uses of coal Uranium - Uses of uranium	Guided discovery Explanation Discussion	Mentioning examples of fossil fuel and their uses	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 50		
2	1	Resources in the environment	Geothermal energy	Defining geothermal energy Uses of geothermal energy	Reading words and sentences Answering questions	This is energy got from hot springs The hot springs are called hydrothermal reservoirs or thermal springs <b>Uses of geothermal energy</b> Produces electricity Cures certain diseases	Guided discovery Explanation Discussion	Mentioning uses of geothermal energy	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 51	

					Examples hot springs Kitagata in Sheema Sempaya in Semuliki National Park						
2	Resources in the environment	Energy resource from plants	Mentioning resource from plants How to conserve plants	Reading words and sentences Answering questions	Uses of plants as a resource - Food for animals and people - Source of income after sale - Herbal medicine - Controlling soil erosion - Making green manure - Beverages use coffee and tea - Rubber for shoe soles - Fiber for making threads and clothes - Making crafts - Cooking oil ❖ How to conserve plants ❖ How man uses plant resource poorly ❖ Dangers of using plant resource poorly	Guided discovery Explanation Discussion	Mentioning uses of plants Mentioning how to conserve plants	Problem solving Logical thinking	Chart Environment	Baroque Science 6 Pg 132-133	
3	Resources in the environment	Energy resource from animals	Mentioning uses of animals Drawing and labeling a biogas digester	Reading words and sentences Answering questions	Uses of animals as a resource Food Security Labour Transport Biogas Manure A diagram of a biogas digester	Guided discovery Explanation Discussion	Mentioning uses of animals as a resource Drawing and labeling a biogas digester	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 53-54	
4	Resources in the environment	Energy resource from wind and air	Defining air Mentioning components of air and their uses of wind as a resource	Reading words and sentences Answering questions	Air is the mixture of gases Components of air Nitrogen – 78% Oxygen – 21% Rare gases 1% Carbon dioxide 0.03% Uses of components air Wind is a mixture of gases Uses of wind as a resource.	Guided discovery Explanation Discussion	Defining air Mentioning component of air Uses of wind.	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 55 Baroque Science 6 Pg. 130	
5	Resources in Harvesting		Mentioning ways of	Reading words	Harvesting resources means collecting resources from	Guided discovery	Mentioning different	Problem solving	Chart	Baroque Science	

		the environment	resources and conserving resources	harvesting resource Mentioning how and why we conserve resources	and sentences Answering questions	environment for use How different resources are harvested Crops- cutting up rooting Minerals- mining Rain-harvesting into tanks Ways of conserving resources 5 Rs Recycling Reduction Rejection/ Refusing Return Re use Tree planting Why do we conserve resources? Ways of harvesting trees. Pollarding Lopping	Explanation Discussion	ways of harvestings resources, Ways and reasons of harvesting resources	Logical thinking		6 Pg. 138	
3	1	Population and Health	Common diseases	Mentioning types of diseases Mentioning causes of these diseases	Reading words and sentences Answering questions	Types of diseases Communicable/ infectious., These are diseases that spread from one person to another. They are caused. E.g Cholera, Dysentery, Trachoma, Diarrhea etc These do not spread from one person to another E.g Cancer, Diabetes, HIV/AIDS Germs are grouped in four groups Bacteria – harmful/ harmless Virus Protozoa Fungi  How communicable diseases are spread, Insect bites Through contaminated water Through air – air born diseases Contact contagious diseases Through cuts Through animal bites	Guided discovery Explanation Discussion	Mentioning types of diseases Mentioning ways how diseases are spread.	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 154	
2	Population	Common	Mentioning	Reading words	Table showing vectors, Diseases, cause.	Guided discovery	Mentioning diseases,	Problem solving	Chart	Comprehensive		

	and Health	diseases	diseases. Mentioning causes of these diseases Example of diseases	and sentences Answering questions	(Comprehension Science Bk 7 Pg 155)	Explanation Discussion	vector, the disease and its cause	Logical thinking		Science Bk 7 Pg 155
3	Population and Health	Controlling common diseases/ sickness	Mentioning difficult ways of controlling sickness in a home	Reading words and sentences Answering questions	Ways of controlling sickness Insect borne/ insect bites Water borne diseases Air born diseases Contagious diseases Controlling diseases from animal bites Controlling diseases spread through cuts	Guided discovery Explanation Discussion	Mentioning ways of controlling different sicknesses	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 156-7
4	Population and Health	Non communicable infections.	Defining non communicable diseases Mentioning example of these diseases Mentioning deficiency diseases and their causes	Reading words and sentences Answering questions	Non communicable diseases are diseases not spread by germs They don't spread from a person to person <b>Nutritional/ deficiency diseases.</b> These are diseases that result from poor feeding. Naming deficiency diseases and their causes.	Guided discovery Explanation Discussion	Defining non communicable diseases Mentioning deficiency diseases and their causes.	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 158
5	Population and Health	inherited and metabolic diseases	Mention inherited and metabolic diseases and their causes	Reading words and sentences Answering questions	Inherited diseases. These are diseases passed from parents to their children E.G Sickle cell, Anemia, Hemophilia- ability of blood to clot. Metabolic diseases. These are diseases that result from over eating making the body not work properly E.g Obesity- The body stores more fats	Guided discovery Explanation Discussion	Defining inherited and metabolic diseases Mentioning their examples Mentioning examples	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 158-9

					Diabetes- The liver cannot regulate the amount of blood sugar Cancer E.g Lung cancer Liver cancer Breast cancer Skin cancer Bone marrow cancer Blood cancer ( Leukemia) Prostate cancer Cancer of the cervix		of cancer				
4	1	Population and Health	Cause s of comm on sickness in a home	Mentioning causes of common sickness and how to control them	Reading words and sentences Answering questions	Cause of sickness at home Lack of proper personal hygiene Mentioning ways of maintaining personal hygiene Lack of proper sanitations Ways of keeping good sanitation Lack of good/ proper nutrition, Lack of enough physical Exercises Uses of physical exercises to the body Lack of enough rest	Guided discovery Explanation Discussion	Mentioning causes of common sickness. Mentioning ways of controlling common sicknesses	Problem solving Logical thinking	Chart	Comprehensive Science Bk 7 Pg 160-1
	2	Population and Health	Community health and social problems among youth	Defining social problem Defining smoking Reasons why people smoke Gangers of smoking	Reading words and sentences Answering questions	Community and social problems are things and activities we do that can lead to problems to our health.  <b>Smoking</b> - Why people smoke - Dangers of smoking - Life skills that can help one avoid smoking	Guided discovery Explanation Discussion	Defining smoking Mentioning causes of smoking Effects of smoking	Problem solving Self-awareness	Chart	Comprehensive Science Bk 7 Pg 162
	3	Population and Health	Community health and social problems among youth	Defining alcoholism Mentioning example of alcohol Reasons why we	Reading words and sentences Answering questions	Alcoholism is a condition when a body gets addicted to alcohol - Reasons why people take alcohol - Danger/ effects of taking alcohol - Life skills that can help avoid taking alcohol	Guided discovery Explanation Discussion	Defining alcoholism Reasons why people take alcohol Effects of taking alcohol	Problem solving Self-awareness	Chart	Comprehensive Science Bk 7 Pg 162

			take alcohol Effects of alcohol								
4	Population and Health	Community health and social problems among youth	Mentioning now essential drugs Mentioning reasons why people take drugs	Reading words and sentences Answering questions	<ul style="list-style-type: none"> <li>- Drugs commonly taken by people</li> <li>- Reasons why people take drugs</li> <li>- Effects of drugs on the body</li> <li>- Organs affected by drugs</li> </ul>	Guided discovery Explanation Discussion	<ul style="list-style-type: none"> <li>Mentioning drugs</li> <li>Mentioning reasons people take drugs</li> <li>Organs affected by drugs</li> </ul>	<ul style="list-style-type: none"> <li>Problem solving</li> <li>Self-awareness</li> </ul>	Chart	Comprehensive Science Bk 7 Pg 162	
5	Population and Health	Community health and social problems among youth	Mentioning social problems	Reading words and sentences Answering questions	<p><b>Other social problems</b></p> <ul style="list-style-type: none"> <li>Poor disposal of rubbish</li> <li>- Effects of poor disposal of rubbish</li> <li>Lack of latrine/ toilets</li> <li>- Effects of not using proper latrines</li> <li>Involving in sex before marriage</li> <li>- Dangers of involving in sex before marriage</li> <li>Sleeping in poor, ventilated house.</li> <li>- Dangers of sleeping in poorly ventilated house</li> </ul>	Guided discovery Explanation Discussion	<ul style="list-style-type: none"> <li>Mentioning social problems and their dangers/ effects</li> </ul>	<ul style="list-style-type: none"> <li>Problem solving</li> <li>Self-awareness</li> </ul>	Chart	Comprehensive Science Bk 7 Pg 162	
5	1	Population and Health	Anti-social behavior and delinquency	Defining anti-social behaviors, mentioning types of antisocial behaviors Mentioning causes of anti-social behaviors	Reading words and sentences Answering questions	<p>Anti-social behavior are acts which are not accepted in a society one lives</p> <p><b>Types of anti-social behaviors</b></p> <ul style="list-style-type: none"> <li>Sex offences e.g. pregnancy</li> <li>Alison [fire setting]</li> <li>Lying</li> <li>Drug abuse</li> <li>Truancy school refuse</li> <li>Causes of school refuse</li> <li>Learning difficulties</li> <li>Bulling and teasing</li> </ul> <p><b>Causes of anti-social behaviors</b></p> <ul style="list-style-type: none"> <li>Poor social environment</li> <li>High expectations</li> <li>Exposure</li> <li>Peer influence</li> <li>Poor/lack of guidance</li> </ul>	Guided discovery Explanation Discussion	<ul style="list-style-type: none"> <li>Defining Anti-social behaviors</li> <li>Mentioning types of anti-behaviors</li> <li>Causes of anti-social behaviors</li> </ul>	<ul style="list-style-type: none"> <li>Self-awareness</li> <li>Problem solving</li> </ul>	Chart	Comprehensive Science Bk 7 Pg 163

Family back ground										
2	Population and Health	Juvenile delinquency	Definition of Juvenile Delinquency How to control delinquency	Reading words and sentences Answering questions	<p>A juvenile is a person below 18 years</p> <p>Delinquency is an antisocial act by a young person which is punishable by law.</p> <p>A diligence is a young person who commits a antisocial act.</p> <p><b>Effects of antisocial behavior and diligence</b></p> <ul style="list-style-type: none"> <li>Criminality</li> <li>School dropout</li> <li>Shame</li> <li>STD's</li> <li>Drug addiction</li> <li>Controlling delinquency</li> <li>- Participation in young club and sports</li> <li>- Being obedient to teachers</li> <li>- Bad company</li> <li>- Stay away from drugs</li> <li>- Guidance and counseling</li> <li>- Rehabilitation</li> </ul>	Guided discovery Explanation Discussion	Defining juvenile Delinquency Delinquent mentioning effects and ways to control delinquency	Self-awareness Problem solving	Chart	Comprehensive Science Bk 7 Pg 166
3	Population and Health	Sex deviations	Defining sex deviation Mentioning example of sex deviations	Reading words and sentences Answering questions	<p>Sex deviation means how people carryout sex differently from the normal accepted ways</p> <p><b>Examples of sex deviation</b></p> <ul style="list-style-type: none"> <li>Bestiality- sex between an animal and human being</li> <li>Homosexuality- sex between people of the same sex</li> <li>Gays – man to man</li> <li>Lesbians – woman to woman</li> <li>Bisexuality – physical / romantic attraction to both sexes</li> <li>Masturbation - Touching one's body and sex organ for sexual pleasure and satisfaction</li> <li>• Why do people masturbate?</li> </ul>	Guided discovery Explanation Discussion	Defining sex deviations Mentioning examples of sex deviations	Self-awareness Problem solving	Chart	Comprehensive Science Bk 7 Pg 168-9

4	Population and Health	STI's	Defining STI's Mentioning example of STI's	Reading words and sentences Answering questions	<ul style="list-style-type: none"> <li>Effects of masturbation</li> <li>Oral sex -stimulating a partners genitals using mouth or tongue</li> <li>Incest – sex between related people</li> <li>STI's are diseases/ infections transmitted through sexual intercourse</li> <li><b>Example</b></li> <li>Genital warts – HIV/AIDS</li> <li>Herpes</li> <li>Gonorrhea</li> <li>Hepatitis B</li> <li>Syphilis</li> <li><b>Causes of sex deviation</b></li> <li>Peer influence</li> <li>Exposure</li> <li>Use of drugs</li> <li>Foreign influence</li> <li>Pornography</li> <li>Environmental factors</li> <li><b>Life skills/ ways to control sex deviation</b></li> <li>Avoiding bad groups</li> <li>Taking advice</li> <li>Avoiding drugs</li> <li>Taking part in helpful activities of sports</li> </ul>	Guided discovery Explanation, Discussion	Defining STI's Mentioning Examples of STI's Mentioning causes of sex deviation.	Self-awareness Problem solving	Chart	Comprehensive Science- Bk 7 Pg 171-2	
5	Population and Health	Population and health concern	Mentioning activities to address population and health concerns	Reading words and sentences Answering questions	<b>Activities to address health concerns</b> <ul style="list-style-type: none"> <li>Providing basic needs</li> <li>Proper use of resources</li> <li>Controlling population growth</li> <li>Health concerns</li> <li><b>Sanitation</b> – General cleanliness of public places           <ul style="list-style-type: none"> <li>- Elements/ activities to promote sanitation</li> <li>- Effects of not keeping good sanitation.</li> </ul> </li> </ul>	Guided discovery Explanation, Discussion	Mentioning health concerns Mentioning effects of not keeping sanitation	Self-awareness Problem solving	Chart	Comprehensive Science Bk 7 Pg 173	
6	1	Population	Population	Defining deficiency	Reading words	Lack of food/ poor feeding This result into malnutrition	Guided discovery	Defining deficiency	Self-awareness	Chart	Comprehensive

2	Population and Health	Population and health concern	diseases Naming deficiency diseases Mentioning causes of lack of foo among people	and sentences Answering questions	- Diseases caused by lack of food - Causes of lack of food in the population - How to solve the problems of lack of food in the population	Explanation Discussion	diseases Mentioning deficiency diseases How to solve lack of food problem	Problem solving	Science Bk 7 Pg 174	
3	Population and Health	School health club	Defining a school health club Mentioning activities of a school health club Mentioning importance of health parades	Reading words and sentences Answering questions	<b>Activities to address health concerns</b> Care for homes - Ways on how we can care for our homes Health surveys carried out Health education - Ways of carrying out health education - Collecting data/ Information on population - Demography - Housing information - Available health services  School health club are groups of people formed to solve health and social problems at school. <b>Activities of school health club</b> - Draws school health rules - Prepares health campaigns - Prepares campaigns on sanitation <b>Health parades</b> This is where children line up for health inspection <b>Activities of help parades</b> Personal hygiene	Guided discovery Explanation Discussion	Mentioning activities to address health concerns How health activities address health concerns	Self-awareness Problem solving	Chart	Comprehensive Science Bk 7 Pg 178