

NAME OF SCHOOL:

ACADEMIC YEAR:2021-2022

CLASS:SENIOR 3

SUBJECT: GEOGRAPHY AND ENVIRONMENT

Subject leader's name:.....

SCHEME OF WORK

FIRST TERM

Dates	Unit title	Lesson title + evaluation	Learning objectives +key unit competence	Teaching methods	Resources + references	Observation
Week 1 11-15/10	Unit 1: Map work interpretation	. Identification of human and physical features on a map . Relationships between human and physical features . Drawing sketch maps and sketch diagrams . Reduction and enlargement of maps	Knowledge and understanding: -Identify physical and human features on the map. -State relationship between human and physical features on the map. Skills: -Differentiate the human and physical features on the map. -Interpret the relationship between human and physical features on the map. Attitude and values: appreciate the use of topographic maps to interpret physical and human features	Teaching: group discussion Guided discovery Brain storming Question answer	*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three	

Week 2 18-22/10	Unit 2:Relief in Africa and the world	<ul style="list-style-type: none"> -Introduction to Africa: Location, area, and population in comparison to other continents of the world. -Major relief forms of Africa: location and description. -Major relief forms of other continents -Impact of relief features on the environment 	<p>Knowledge and understanding: identify area and location and population of Africa in relation to other continents.</p> <p>-Name the major forms of relief in Africa in relation to other continents</p> <p>Skills:</p> <p>-describe the size, position and population and population of Africa</p> <p>Attitudes and values:</p> <p>-Appreciate the beauty of the physical landscape of the world.</p> <p>-Show concern for the impact of human activities on relief features and climate in the world</p>	<p>Teaching: group discussion</p> <p>Guided discovery</p> <p>Brain storming</p> <p>Question answer</p>	<p>*MKGeography S3</p> <p>*Fieldwork, map work and photograph interpretation</p> <p>*Geography and environment senior three</p>	
Week 3 25-29/10	UNIT3: Soils in Africa and the world	<ul style="list-style-type: none"> -Major types of soils in Africa. -Factors for soil formation in Africa. 	<p>Knowledge and understanding:</p> <p>. outline and locate different soil types in Africa.</p> <p>. Identify the relationship that exists between soil types in Africa and those of</p>	<p>Teaching: group discussion</p> <p>Guided discovery</p> <p>Brain storming</p>	<p>*MKGeography S3</p> <p>*Fieldwork, map work and photograph interpretation</p>	

<p>Week 4</p> <p>01-05/10</p>		<p>-Major types of soils in other continents</p>	<p>other continents. . Recall the factors favoring the soil formation SKILLS: Research the location of the major types of soils in Africa. .Explain the major factors influencing soil formation in Africa. Attitudes and values: Appreciate the importance of major types soils in Africa and other continents</p>	<p>Question answer</p>	<p>*Geography and environment senior three</p>	
<p>Week 5</p> <p>08-12/11</p>	<p>UNIT 4: Climate in Africa and the world</p>	<p>-Climate of Africa: regions, types and characteristics. -Climate of the other continents: zones, types, location and characteristics</p>	<p>Knowledge and understanding: -Name the different climatic types in Africa. -State the major types of climate in other continents. Skills: -Classify the climatic regions of Africa. -Analyze the climatic regions of the world. Attitudes and values: Appreciate the importance of the variations of climate in Africa and other continents</p>	<p>Teaching: group discussion Guided discovery Brain storming Question answer</p>	<p>*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three</p>	
<p>Week6</p> <p>15-19/11</p>	<p>UNIT 4: Climate in Africa and the world</p>	<p>-Relationship between climate and human activities</p>	<p>Knowledge and understanding: Outline the relationship between climate and human activities. Skills:</p>	<p>Teaching: group discussion Guided discovery</p>		

			<p>Explain the relationship between climate and human activities</p> <p>Attitudes and values:</p> <p>Show continual desire to protect the environment in order to minimize the dangers of climate change</p>	<p>Brain storming</p> <p>Question answer</p>		
<p>Week 7 22-26/11</p>	<p>Unit 5:Vegetation of Africa and the world</p>	<p>-Vegetation distribution in Africa: location, reasons for their distribution and characteristics.</p> <p>-major types of vegetation in other continents.</p> <p>-The relationship between the different types of vegetation and human activities.</p>	<p>Knowledge and understanding:</p> <p>-Identify the major vegetation types in Africa and their characteristics.</p> <p>-State the different types of vegetation in other continents.</p> <p>-Identify the relationship between vegetation and human activities in Africa.</p> <p>Skills:</p> <p>-Describe the distribution of vegetation types in Africa.</p> <p>-Categorize the major types of vegetation in other continents.</p> <p>-Assess the relationship between vegetation and human activities in Africa.</p> <p>Attitudes and values:</p> <p>-Appreciate the variations of vegetation distribution in the world.</p> <p>-Show concern for the impact of vegetation on human activities.</p> <p>-Show respect for the relationship between different types of vegetation</p>	<p>Teaching: group discussion</p> <p>Guided discovery</p> <p>Brain storming</p> <p>Question answer</p>	<p>*MK Geography S3</p> <p>*Fieldwork, map work and photograph interpretation</p> <p>*Geography and environment senior three</p>	

			and human activities.			
Week 8 29/11 - 03/12	Unit 6: Drainage in Africa	<ul style="list-style-type: none"> -Major rivers and lakes in Africa. -Major lakes of Africa according to their mode of formation. -Features 	Knowledge and understanding: <ul style="list-style-type: none"> -Identify the major water bodies in Africa. -Name the features related to rivers in Africa. -Recall the importance of water bodies in Africa. Skills:	Teaching: group discussion Guided discovery Brain storming Question answer	*MK Geography S3 *Fieldwork, map work and photograph interpretation *Geography and environment	

WEEK 9 06-10/12	Summative evaluation and revision	related to rivers in Africa: erosional and depositional features. -Importance of rivers and wetlands in Africa. -Challenges to obtain sustainable clean water in Africa: water scarcity, pollution and silting/sedimentation	-Describe different water bodies found in Africa. -Evaluate the importance of water bodies in Africa. -Examine the challenges faced in obtaining sustainable and clean water in Africa. Attitudes and values: -Appreciate the importance of water resource management and conservation. -Show concern for water scarcity in Sub Saharan Africa.		senior three	
Week 10 13-17/12	SERIAL EXAM					
WEEK11 20-24/	PREPARATION OF REPORT					

SECOND TERM

Week 1 10-14/01	Unit 7 Environmental conservation	-Definition of environment. -Effects of	Knowledge and understanding: -Recall the various components of the environment.	Teaching: group discussion	*MKGeography S3 *Fieldwork, map	
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		<p>environmental degradation.</p> <p>-Reasons for environment degradation.</p> <p>-Conservation measures for environmental resources.</p> <p>-Challenges faced in the implementation of environmental conservation measures</p>	<p>-Identify the effects of the environmental degradation.</p> <p>-State the reasons for conserving the environment.</p> <p>-Identify the different measures for environmental conservation.</p> <p>Skills:</p> <p>-Apply knowledge to explain various components of the environment.</p> <p>-Examine the effects of environmental degradation.</p> <p>-Apply environmental conservation measures.</p> <p>Attitudes and values:</p> <p>-Appreciate the importance of various environmental resources.</p> <p>-Appreciate the importance of environmental conservation.</p>	<p>Guided discovery</p> <p>Brain storming</p> <p>Question answer</p>	<p>work and photograph interpretation</p> <p>*Geography and environment senior three</p>	
<p>week 2</p> <p>17-21/01</p>	<p>Unit 8:</p> <p>Population in Africa</p>	<p>-Population distribution and density (Africa and the world).</p> <p>-Factors influencing population distribution.</p> <p>-Population structure: composition, age</p>	<p>Knowledge and understanding:</p> <p>-Identify population distribution of Africa and the rest of the world.</p> <p>-Identify the factors influencing the density and distribution of population.</p> <p>-Identify the population structure of Africa and the rest of the world.</p> <p>-State the major problems of</p>	<p>Teaching: group discussion</p> <p>Guided discovery</p> <p>Brain storming</p> <p>Question answer</p>	<p>*MKGeography S3</p> <p>*Fieldwork, map work and photograph interpretation</p> <p>*Geography and environment senior three</p>	

<p>Week 3 24-28/01</p>		<p>and sex.</p> <p>-population growth/explosion: birth rate, fertility rate, death rate, growth rate and its effects in Africa.</p> <p>-Possible ways to control rapid population growth in Africa.</p> <p>-Migrations in Africa: Types, causes and effects of migration.</p> <p>-Population problems.</p> <p>-Summative assessment</p>	<p>population in Africa.</p> <p>Skills:</p> <p>-Describe the population distribution of Africa and the rest of the world.</p> <p>-Analyze the causes and consequences of overpopulation in Africa.</p> <p>-Evaluate the possible solutions to the problems related to overpopulation in Africa.</p> <p>-Analyze the major population problems in Africa and propose the solutions.</p> <p>Attitudes and values:</p> <p>-Show concern for uneven distribution of population in the world and categorize the possible factors influencing population distribution.</p> <p>-Show concern for effects of rapid population growth in Africa and advocate for control measures.</p>			
<p>Week 4 31/1 - 04/02</p>	<p>Unit 9: Urban settlement in Africa</p>	<p>-Characteristics of urban centers in Africa.</p> <p>-Functions and importance of</p>	<p>Knowledge and understanding:</p> <p>-State the characteristics of urban centers in Africa.</p> <p>-Outline functions of urban centers in Africa.</p>	<p>Teaching: group discussion</p> <p>Guided discovery</p> <p>Brain</p>	<p>*MKGeography S3</p> <p>*Fieldwork, map work and photograph</p>	

		urban centers. -Factors responsible for rapid urban growth. -Problems and solutions for urban centers in Africa. -Case studies: Nairobi, Kampala, Cairo and Johannesburg.	-State the factors influencing the growth of urban centers in Africa. Skills: -Analyze the characteristics of urban centers in Africa. -Analyze the functions of urban centers in Africa. -Explain the factors influencing the growth of urban centers in Africa. Attitudes and values: -Appreciate the importance of urbanization in Africa. -Show concern for the growth of urban centers in Africa	storming Question answer	interpretation *Geography and environment senior three	
Week 5 07-11/02	Unit 10: Agricultural systems in Africa	-Types of agricultural systems in Africa. -Subsistence farming in Africa: Shifting cultivation, small holder farming, and rotational bush fallowing.	Knowledge and understanding: -State the different types of agriculture in Africa. -Identify the different methods of subsistence farming in Africa. -Identify the modern methods of agriculture in Africa. -Identify the impacts of agricultural activities. Skills: -Apply knowledge to differentiate between the types of agriculture in Africa. -Analyze the different methods	Teaching: group discussion Guided discovery Brain storming Question answer	*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three	

<p>Week 6 14-18/02</p>	<p>Unit 10: Agricultural systems in Africa</p>	<p>-Modern agriculture: Plantation agriculture, green revolution, irrigation farming, -Livestock farming in Africa: Nomadic pastoralism, ranching, and dairy farming. -The impacts of Various agricultural activities on the development of Africa. -Case studies: Cotton growing in the lower Nile valley, cocoa and rubber growing in west Africa, dairy farming in Kenya, and livestock ranching in Botswana.</p>	<p>of subsistence farming in Africa. -Evaluate the impact of agricultural activities in Africa. Attitudes and values: -Appreciate the importance of agricultural modernization to the development of Africa. -Show respect for the solutions to the problems affecting agriculture in Africa.</p>			
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<p>Week 7 21-25/02</p>	<p>Unit 11: Forestry in Africa</p>	<p>-The major types of forests and their characteristics. Forest areas: Gabon, D.R.C, Congo, Cameroon, Nigeria and Ivory coast -Factors favouring forest growth in Africa. -Forest exploitation in Africa -Desertification in Africa (areas affected, causes, effects, and control measures). Impact of forestry and forests on sustainable development in Africa. Summative assessment</p>	<p>Knowledge and understanding: -Name the major types of forest and forest areas in Africa. -State the factors favouring forest growth and exploitation in Africa. -Identify the effects of forest exploitation in Africa. -Identify the causes and effects of desertification in Africa. Skills: -Apply knowledge of forest management to suggest measures to prevent desertification. -Analyze the characteristics of major forests in Africa. Attitudes and values: -Appreciate the importance of forests and forest conservation in Africa. -Show respect for forests and forest conservation measures in Africa.</p>	<p>Teaching: group discussion Guided discovery Brain storming Question answer</p>	<p>*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three</p>	
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<p>Week 8 28/2-4/03</p>	<p>Unit 12: Fishing in Africa</p>	<p>-The major fishing grounds in Africa. -Types of fish and major fishing methods -Factors favouring the development of fishing in Africa.</p> <p>-Importance of fishing in Africa. -Problems with fishing in Africa and possible solutions.</p>	<p>Knowledge and understanding: -State the major fishing grounds in Africa. -Explain the factors favouring the growth and development of fishing in Africa. Skills: -Draw a map of Africa to show fishing grounds. -Identify the importance of fishing in Africa.</p> <p>Attitudes and values: Appreciate the importance of fishing industry in Africa. -Show concern for the problems in the development of fishing industry in Africa.</p>	<p>Teaching: group discussion</p> <p>Guided discovery Brain storming</p> <p>Question answer</p>	<p>MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three</p>	
<p>Week 9 07-11/03</p>	<p>Unit 13: Mining in Africa</p>	<p>-Various types of minerals in Africa. -Major mining areas in Africa. -Methods of mining in Africa. -Factors favouring the exploitation of minerals in Africa. - Problems affecting</p>	<p>Knowledge and understanding: -List the major types of minerals and mining areas in Africa. -Show the impact of mining on sustainable development of Africa. Skills: -Locate the major minerals and mining areas of Africa. -Analyze factors favouring the</p>	<p>Teaching: group discussion</p> <p>Guided discovery Brain storming</p> <p>Question answer</p>	<p>*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three</p>	

		<p>mining and ways to enhance sustainable mining in Africa.</p> <p>-Impact of mining on sustainable development of Africa.</p>	<p>exploitation of minerals in Africa.</p> <p>Attitudes and values:</p> <p>-Appreciate the importance of various types of minerals found in Africa.</p> <p>-Show concern for the effects of mining in Africa and suggest solutions.</p> <p>-Appreciate the importance of mining on sustainable development of Africa.</p>			
<p>Week 10 14-18/03</p>	<p>REVISION</p>					
<p>WEEK 11 21-25/03</p>	<p>SERIAL EXAM</p>					
<p>WEEK12 28/03-</p>	<p>PREPARATION OF REPORT</p>					

01/04	
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THIRD TERM

Week 1 18-22/04	Unit 14: Power and energy in Africa	<ul style="list-style-type: none"> -Types and sources of power and energy in Africa. -Factors favouring power and energy production in Africa -Importance of power and energy in Africa. -Problems and solutions of power and energy production in Africa. -Case studies: Hydro-electric power stations/projects in Africa. 	<p>Knowledge and understanding:</p> <ul style="list-style-type: none"> -State the factors favouring power and energy production in Africa -Show the importance of power and energy in Africa. <p>Skills:</p> <ul style="list-style-type: none"> -Analyze the factors favouring power and energy production in Africa. -Evaluate the importance of power and energy in Africa <p>Attitude and values:</p> <ul style="list-style-type: none"> -Respond to the problems affecting power and energy production in Africa. -Appreciate the Importance of power and energy for development of Africa. 	<p>Teaching: group discussion</p> <p>Guided discovery</p> <p>Brain storming</p> <p>Question answer</p>	<p>*MKGeography S3</p> <p>*Fieldwork, map work and photograph interpretation</p> <p>*Geography and environment senior three</p>	
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Week 2 25-29 /04	Unit 15: Industrial development in Africa	<ul style="list-style-type: none"> -Types of industries in Africa. -The major industrial areas of Africa. -Factors favouring industrialization in Africa. -Importance of industrialization to the economies of Africa. 	<p>Knowledge and understanding:</p> <ul style="list-style-type: none"> -Explain the importance of industries to the economies of Africa. -Identify the factors influencing industrialization in Africa. <p>Skills:</p> <ul style="list-style-type: none"> -Classify the major types of industries in Africa. -Analyze the effects of industrialization on the economy of Africa. <p>Attitude and values:</p> <ul style="list-style-type: none"> -Appreciate the distribution of industries that show concern for environmental protection. 	<p>Teaching: group discussion</p> <p>Guided discovery Brain storming</p> <p>Question answer</p>	<p>*MKGeography S3</p> <p>*Fieldwork, map work and photograph interpretation</p> <p>*Geography and environment senior three</p>	
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Week 3 02/- 06/05		-Problems affecting industries in Africa. -Prospect for the sustainable development of industries in Africa. Summative assessment				
Week 4 09-13/05	Unit 16: Transport, communication and trade in Africa.	-Major means of transport in Africa. -Factors influencing the development of transport in Africa. -Evaluate the importance of various types of transport in Africa. -The problems of transport in Africa and possible solutions.	Knowledge and understanding: -Explain the importance of various types of transport in Africa. -State the importance of the various types of communications in Africa -Identify the importance of trade in Africa. Skills: -compare the different types of transport. -Evaluate the importance of various types of	Teaching: group discussion Guided discovery Brain storming Question answer	*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three	

<p>Week 5 16-20/05</p>		<ul style="list-style-type: none"> -Major means of communication in Africa. -Factors influencing the development of communication in Africa -Importance of communication in Africa. -Problems affecting communications in Africa and possible solutions. 	<p>communication.</p> <ul style="list-style-type: none"> -Examine the importance of trade in Africa. <p>Attitudes and values:</p> <ul style="list-style-type: none"> - Show respect for the role of trade in the development of other economic activities in Africa. 			
<p>Week 6 23-27/05</p>		<ul style="list-style-type: none"> -Types of trade. -Importance of trade in Africa. -Problems hindering trade in Africa and possible solutions. -Regional and international trade partners with Africa. 				

Week 7 30/5-03/06	Unit 17: Tourism in Africa	<ul style="list-style-type: none"> -Major tourist areas in Africa. -Factors favouring development of tourism in Africa. -Contribution of tourism to the development of Africa. -Problems affecting tourism in Africa and future prospects for sustainable development. 	Knowledge and understanding: - Name the tourist attractions in Africa. -Identify the contribution of tourism to the economy of Africa. Skills: -Locate the major tourist attraction areas in Africa. -Evaluate the importance of tourism in Africa. Attitude and values: -Appreciate the development of tourism in Africa. -Appreciate the contribution of to the economic development of Africa.	Teaching: group discussion Guided discovery Brain storming Question answer	*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three	
Week 8 06-10/06	Unit 18: Development case studies	Netherlands <ul style="list-style-type: none"> -Introduction to Netherlands. -Agriculture on polder lands in the Netherlands. -Factors influencing agriculture on polder lands in the Netherlands. -Importance of 	Knowledge and understanding: Discuss the factors favouring the development of agriculture on polder lands Skills: analyze the general importance of agriculture in Netherlands Attitudes and values: - Appreciate the importance of agriculture in general -Show respect for livestock farming in the Netherlands.	Teaching: group discussion Guided discovery Brain storming Question answer	*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three	

		<p>agriculture in the Netherlands.</p> <ul style="list-style-type: none"> - Unique problems hindering the agricultural expansion on the polder lands and possible solutions. -Livestock farming in the Netherlands. 				
<p>Week 9 13-17/06</p>	<p>Unit 18: Development case studies</p>	<p>*Plantation agriculture in Brazil</p> <ul style="list-style-type: none"> -Introduction to Brazil Plantation agriculture zones in Brazil. -Factors favoring plantation agriculture in Brazil. -Importance of plantation agriculture in Brazil. -problems and solutions 	<p>Knowledge and understanding:</p> <ul style="list-style-type: none"> -State the factors favoring plantation agriculture in Brazil - Explain the agricultural systems in the USA <p>Skills:</p> <ul style="list-style-type: none"> -Describe the problems faced by agricultural sector in Brazil. - Explain the regionalization of agriculture in the USA <p>Attitudes and values:</p> <ul style="list-style-type: none"> -Appreciate the importance of plantation agriculture in Brazil. -Appreciate the level of agricultural development in Brazil in comparison to that of Rwanda. 	<p>Teaching: group discussion</p> <p>Guided discovery</p> <p>Brain storming</p> <p>Question answer</p>	<p>*MKGeography S3</p> <p>*Fieldwork, map work and photograph interpretation</p> <p>*Geography and environment senior three</p>	

		<p>associated with plantation agriculture.</p> <p>*Agriculture in the USA</p>				
<p>Week 10 20-24/06</p>	<p>Unit 18: Development case studies</p>	<p>*Industrial development in Germany *Industrial development in Japan *Industrial development in USA</p>	<p>Knowledge and understanding: -Name the major industries in the RUHR industrial region -Outline the factors favouring the development of industries in Japan. -Identify the major industrial regions and types of industries in the USA Skills: -Analyze the factors that favor industrial development in Germany. -Analyze the importance of various industries in Japan. Attitudes and values: Appreciate the level of industrial development in Germany, Japan, USA, and show desire to improve the industries in Rwanda.</p>	<p>Teaching: group discussion</p> <p>Guided discovery Brain storming</p> <p>Question answer</p>	<p>*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three</p>	

	Unit 18: Development case studies	*Tourism in Switzerland *Population in China *Urbanization in USA	Knowledge and understanding: -State the factors favouring the development of tourism in Switzerland -Identify the importance of tourism in tourism. -State the population control policies used in China. -Identify the factors for urban growth and development in the USA. Skills: -Analyze the different population control Methods used in China -Evaluate the factors for urban growth and development. Attitudes and values: -Appreciate the importance and level of tourism development in Rwanda	Teaching: group discussion Guided discovery Brain storming Question answer	*MKGeography S3 *Fieldwork, map work and photograph interpretation *Geography and environment senior three	
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Week 11 27/06- 01/07	SUMMATIVE EVALUATION AND REVISION					
Week 12 04-08/07	SERIAL EXAM					
WEEK13 11-15/07	PREPARATION OF REPORTS					