

ACCELERATED EDUCATION PROGRAMME

GEOGRAPHY

SYLLABUS



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GEOGRAPHY SYLLABUS



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Foreword

Education is a fundamental tool for protection of conflict-and-disaster-affected children and youths from harm and exploitation. This is a crucial part of UNESCO's advocacy messages. Under appropriate conditions of security, provision of education can help protect children and youth from recruitment into fighting forces, forced labour, prostitution, drug abuse and other criminal activities. In post-conflict settings, education contributes to the reintegration into society of former soldiers and other children and youths associated with fighting forces.

The National Curriculum Development Centre (NCDC), in collaboration with War Child Canada, embraced Accelerated Education Programme (AEP) that focuses on providing relevant and appropriate education to the learners in refugee camps and the host communities of secondary school age (ages 16 – 45+) in Adjumani district. The programme will help them to acquire the necessary competencies that will enable them to 'catch-up' and re-join the learners of the same (or near) age group in the formal education programme.

AEP subjects were selected based on the Ugandan regulation which states that learners must study the seven core subjects, i.e. Mathematics, English, Physics, Chemistry, Biology, History and Geography. So AEP learners shall take all the core subjects. In addition, the learners shall take: Religious Education which will help to address the prevalence of early marriages for the girl-child, cases of indiscipline and moral modelling of the learners; Personal Social and Health Education/Physical Education which will help the learners to develop physically, learn to live together, develop talents and become emotionally balanced; Guidance and Counselling in which the teachers will be trained on integration of guidance and counselling services in the delivery of the education curriculum.

This Programme will equip teachers and other stakeholders in schools and the communities with relevant information, values and skills that will enable them to effectively facilitate the teaching and learning processes.

I, therefore, recommend AEP to you because I trust that the materials will be valuable in your endeavour to meet the educational needs of the refugee learners and other beneficiaries from the host communities.

Hon. Janet Kataaha Museveni
MINISTER OF EDUCATION AND SPORTS



Acknowledgement

National Curriculum Development Centre (NCDC) would like to express its gratitude to all those who, in one way or another, contributed and worked tirelessly towards the development of this Accelerated Education Programme (AEP) Geography Syllabus.

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Furthermore, NCDC recognises the work of the editors who worked with the writers through the development of this document.

NCDC takes responsibility for any shortcomings that might be identified in this syllabus and welcomes suggestions for addressing the inadequacies. Such comments and suggestions may be communicated to NCDC through: P.O. Box 7002, Kampala or e-mail admin@ncdc.og.ug.

Grace K. Baguma

DIRECTOR

NATIONAL CURRICULUM DEVELOPMENT CENTRE

Introduction to Accelerated Education Programme

Worldwide, substantial alternative schooling programmes are developed to meet the basic education needs of under-reached children. Of recent, it has been increasingly recognized that the goals of Education for All cannot be achieved unless more attention is paid to educating out-of-school children (UNESCO, Global Monitoring Report, 2008). Indeed, the UNESCO Global Monitoring Report 2010 'Reaching the Marginalized' focused on this issue. In a bid to help developing countries achieve the Millennium Development Goals, there should be initiatives to incorporate elements of accelerated learning to achieve SDG 4.

The Accelerated Education Programme (AEP) in Uganda is a form of curriculum option which combines the stronger features of earlier mainstreaming approaches into the new design to raise the success rates for refugee community learners. The AEP secondary school tier is a bigger stride to address the education gap within refugee communities not only in Uganda but also in other neighbouring countries. This AEP for Secondary has benchmarked on the Primary AEP Programme, and intends to infer the entire process of education and its cognitive, emotional, and social components.

The Accelerated Education Programme at Secondary school level focuses on completing learning in a shorter period of two years. The AEP is complementary both in providing an alternative route and in matching its curriculum to the 'official' curriculum, thus allowing the learners to return to formal schooling at some stage. The programme intends to promote access to education in an accelerated timeframe for disadvantaged groups, out of school and over-age children, and youths who missed out or had their education interrupted due to poverty, violence, conflict and crisis. The goal of this programme is to provide the learners with competencies equivalent to those in the formal system in an accelerated timeframe, with the learners either transitioning back into the mainstream education or exiting with some competencies required for work.

Ideally, teaching AEP calls for a methodology that is interactive and learner-centred, incorporating other aspects of multiple-intelligence learning. Because teaching and learning are accelerated, and the curriculum content is compressed and condensed, the four 'P' elements are at the core of the accelerated learning cycle: processes, psychological,



physiological and physical. These core elements provide the physical and psychological space in which the learners can learn more effectively.

It is intentional to include alternative subjects in this programme e.g. life skills, peace education, environment, HIV and AIDS which are responsive to the context. The learners of AEP need alternative supporting knowledge and life skills to survive in the challenging world. It is equally important to note that this conception of accelerated learning requires an extremely well-resourced classroom and exceptionally well-trained teachers. The expanded learning time from the norm is because the teaching methodology is interactive and learner-centred.

It is our hope that AEP will register considerable success in meeting the educational needs of these underserved populations, not only in terms of access and equity, but also in being able to return to school for the completion of their education, and most importantly, in getting measurable learning outcomes.

Purpose of the AEP Geography Syllabus

This syllabus is aimed at providing the teacher with the guidance required to teach Geography to learners who will not go through the four years of the ordinary level education cycle. It is meant to cover the most critical aspects of Geography without affecting its standards. It will adequately prepare learners for the Uganda Certificate of Education (UCE). However, it requires the teacher to be very creative and innovative if leaners are to acquire the same competences as those following the traditional O-level Geography syllabus.

Rationale for Teaching Geography

Nearly all aspects of our lives are influenced by the environment, both natural and human, which we live in. In turn, our lives have effects on the environment. Geography deals with this inter-relationship between humans and their environment. This relationship is becoming increasingly important as the population of the world grows and the world's resources remain finite. Thus the key issues of Geography become increasingly important: population growth; soils conservation and erosion; the use and preservation of the oceans; the world's food supply and food shortages; rural-urban drift, urbanisation and the problems of urban areas; problems of pollution of all kinds; the conservation of wild life and many related issues.

At the Lower Secondary level, Geography is seen as the study of human communities at local East African and African levels, with contrast through

specific case studies of other areas of the world. At this level, therefore, the emphasis is on human and regional geography focusing on actual people in actual communities, rather than the more scientific study of spatial relationships which geography becomes at a higher level.

Topics

The Accelerated Education Program (AEP) for Geography has been organised into 24 topics and their respective sub-topics. The program is divided into two levels as indicated in the table below.

LE	VEL 1	LEVEL 2		
1.	Introduction to Geography	13.	Fishing in East Africa	
2.	Showing Physical and Human	14.	Population and Urbanisation in	
	Features in the Local Area on a		East Africa	
	Map	15.	Development of Agriculture in	
3.	Map Reading and Map Use		East Africa	
4.	Using Tables, Graphs and	16.	Mining in East Africa	
	Charts	17.	Development of Industries in	
5.	The Shape and Movements of		East Africa	
	the Earth	18.	Wildlife Conservation and	
6.	6. Weather and Climate in East Tourism in East Africa		Tourism in East Africa	
	Africa 19. More on Use of Maps		More on Use of Maps	
7.	Introduction to East Africa	The	Rest of Africa	
8.	Formation of Rocks and Major	20.	Location and Size of Africa	
	Landforms in East Africa	21.	Climate and Vegetation of	
9.	Rivers and Drainage Patterns		Africa	
in East Africa		22.	Development of Agriculture in	
10. The Soils of East Africa			Africa: Arable and Pastoral	
11. Climate and Natural Vegetation		23.	Forest Resources and Forestry	
of East Africa			in Africa	
12.	Forestry in East Africa	24.	1	
			Africa	

Note: Case Studies

Case Studies of limited areas of North America and the Rhine lands have been included to provide studies of some areas of the world outside East Africa and the rest of Africa. They show the learners' aspects of life outside East Africa, provide contrasts and comparisons with East Africa; and stress ways in which East Africa can learn from outside areas. Each case study directly links with a study of a similar topic in East Africa or the rest of Africa. They are interspersed throughout the syllabus and teachers are not expected to treat them as regional studies.



Structure of the Syllabus

The syllabus has been structured into three columns.

Column 1 outlines the **learning outcomes** the learners should achieve in learning each topic. This includes factual knowledge which they should be able to list or reproduce; concepts which they should understand and be able to explain; skills, both cognitive and practical which they should be able to use; and values and attitudes which they should acquire and exhibit in real life situations. These are further elaborated below:

Knowledge: All learning must have a background of factual knowledge. However, emphasis should not just be on acquiring knowledge, but also on understanding it and being able to use it in real life situations.

Concepts: These should not only be useful to the learners in understanding the world they live in but also in their future life and studies. They should be able to explain these concepts in their own words. It is pointless for the learners to acquire concepts without understanding them. What is learnt must not simply be crammed to be reproduced in an exam.

Skills: The learners should acquire both cognitive and practical skills which they can use when they leave school for the world of work – employed or self-employed – and those they can use in further studies later. These include cognitive skills such as literacy and numeracy and higher level thinking skills such as comparing, contrasting, summarising, analysing, etc. Skills also include practical activities such as drawing and interpreting diagrams, graphs and statistics, drawing tables, interpreting photographs and maps, doing experiments or fieldwork.

Values and attitudes: These can help learners to become useful and productive members of society, including conserving their immediate environment and resources; and also forming their own opinions and defending such opinions.

Column 2 suggests **teaching/learning activities** which the learners should do to achieve the above learning outcomes. Most of the activities are designed for the learners themselves to do to avoid knowledge gained simply through listening to the teacher or reading textbooks. In some cases, where there are no appropriate activities for the learners, there are activities for the teacher to explain the knowledge or concepts to the learners. In this syllabus, the word "explain" is used where the teacher will explain. However, this should usually be accompanied by questioning or discussion to make sure the learners participate in order to better understand what is being taught.

Column 3 lists suggested **sample assessment strategies**. These are activities of formative assessment by which the teacher can find out if the learners have achieved the learning outcomes listed in column 1. They do not just test knowledge but understanding and skills gained. They are not written questions which can be marked as in a test. They include other types of activities to find out if the learners have acquired specified knowledge and skills. They are suggestions which may be used if the teacher thinks they are useful, but he/she may choose to use other similar activities for assessment. This does not mean that summative assessment is not important. There will also be summative assessment at the end of each term and year, and an end of cycle (UCE) exam set by the Uganda National Examinations Board (UNEB).

Program Planner

	Planne		
Level 1	Topic	Title	Duration
	No.		(Hours)
	1	Introduction to Geography	4
Term 1	2	Showing Physical and Human Features in	3
		the Local Area on a Map	
	3	Map Reading and Map Use	6
	4	Using Tables, Graphs and Charts	7
	5	The Shape and Movements of The Earth	4
	6	Weather and Climate	7
Term 2	7	Introduction to East Africa	3
	8	Formation of Rocks and Major Landforms	22
		in East Africa.	
	9	Rivers and Drainage Patterns in East	9
		Africa	
Term 3	10	The Soils of East Africa	6
	11	Climate and Natural Vegetation of East	8
		Africa	
	12	Forestry in East Africa	8

Level 2	Topic No.	Title	Duration (Hours)
Term	13	Fishing in East Africa	8
1	14	Population and Urbanisation in East Africa	8
	15	Development of Agriculture in East Africa	19
	16	Mining in East Africa	6
	17	Development of Industries in East Africa	7
	18	Wildlife Conservation and Tourism in East	8



		Africa	
Term	19	More on Use of Maps	4
2	20	Location and Size of Africa	1
	21	Climate and Vegetation of Africa	6
	22	Development of Agriculture in Africa: Arable	16
		and Pastoral	
Term	23	Forest Resources and Forestry in Africa	6
3	24	Development of Industry in Africa	6

LEVEL 1

Term 1

Topic 1: Introduction to Geography

Duration: 4 Hours

Competency

The learner understands geography, searches geographical information from different sources and appreciates the importance of studying Geography.

Sub-topic 1: Meaning, Branches and the Importance of Studying Geography

Duration: 2 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be able to: a. know the meaning of geography. b. understand that the environment includes all the things around us, both natural and things made by people. c. identify the	 The learners go outside to observe and make a list of things they can see. Work in pairs and group the things they have listed into two categories: natural and things made by people. Through discussion of the categories they have made, explain that all the things they have 	1. Ask learners to individually write two paragraphs: one describing the physical environment around the school and one describing the human environment. 2. Learners give examples of how people in the local
features of the environment by going outside the classroom to observe. d. understand that geography is the	the things they have grouped make up our environment. The natural environment is made up of three parts: lithosphere, biosphere and atmosphere. • Challenge learners to	people in the local area: a) are affected by the physical environment. b) have changed the physical environment.



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
study of people and their environment. e. appreciate that the study of geography helps us to understand how our lives are affected by the environment and how we can conserve the it.	individually identify the branches of geography and the part of the environment each studies. • Explain that geography has two branches: physical geography and human geography. • Learners individually explain what they understand by geography. • In groups, learners discuss the importance of studying geography. • Ask learners to give their views about the value of studying geography.	

Sub-topic 2: Sources of Geographical Information

Duration: 2 Hours

Learning Outcomes	Suggested Teaching and	Sample
g	Learning Activities	Assessment Strategy
The learner should be able to: a. understand the different sources of geographical information. b. use different sources to find geographical information about different areas.	 Learners to suggest how they can find out information about the geography of: a) a local area. b) areas they have never been to. Write these on the chalkboard: a) visit the area, look for information and talk to people. 	Give the learners a group task to visit a local area and find out particular geographical information about it. They present reports.
c. form opinions	b) look at pictures; read	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
about the different sources of geographical information.	textbooks and stories; read newspapers and magazines; use maps; use atlases; use statistics; use the Internet; watch television and movies. Explain that these are sources of geographical information. Explain that visiting an area to find out geographical information is called fieldwork. Learners conduct a library/ Internet research to find out geographical information.	

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Kaggwa, H., Mugumya, R., Sepuya, N., and Mutyaba, J. C. (2007). MK
 Integrated Secondary Geography. Student's Book 1, pp. 1-10.

 Karuggah, R. and Kibuuka, P. (2003). Certificate Geography, Form 1. Oxford
 University Press, Nairobi. pp. 1-6



Topic 2: Showing Physical and Human Features in the Local Area on a Map

Duration: 3 Hours

Competency

The learner knows the main physical and human features of the local area and represents them on a map.

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be able to: a. know what a map is and how it can be used to show places. b. realise that different kinds of maps can show areas of different sizes. c. draw a map of a local area. d. describe a place from a map. e. follow a route on a map from the school or any other area. f. appreciate that maps can help us to move around an area and to a place we have never been to.	 Site and Location of the School The learner draws a map to guide a friend who is new in the area on how to get to the school. In pairs, the leaners discuss and comment on each other's maps. Explain that a map is drawn as if the observer is looking at features from above i.e. looking at their tops from the air. In groups, the leaners move around the school and draw the map of the school. Using the map, they have drawn, groups comment on each other's map and discuss the features of a good map. List these on the chalkboard: key, scale, direction finder (compass rose), frame. Task learners to draw a map of the area surrounding their school. Explain that this map shows the location of the school. 	The learner draws a map of the route from the school to their home (or other known area) showing the main features. They should include all features of a good map learnt.

Reference

Hickman, G. (1994). *Lands and Peoples of East Africa*. Longman Limited Burnt Mill. pp 84-85

Topic 3: Map Reading and Map Use

Duration: 6 Hours

Competence

The learner knows the main types of maps, features of a map and uses maps in different situations.

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be able to: a. know the main types of maps. b. know the meaning of scale, compass, direction, bearing, grid reference and symbols. c. understand that a map shows things by symbols, including colours or	 Types of Maps Present examples of different types of maps and ask the learners to explain the difference between them. The learners suggest the type of map each one is. In groups, the learners discuss and suggest categorise into which maps can be put. (Outline maps, atlas maps, survey maps) Showing Features on a Map Using the same examples of maps used in the above sub-topic, challenge the learners to explain how different features are shown on a map. List these on the chalkboard: symbols, shading and colouring. Explain that maps do not show things as they appear in reality. They show things using symbols including shading and colouring. The learners suggest symbols which can be used to represent a farm, forest, 	1. Give out maps, preferably survey maps or similar ones and ask questions to test all aspects of maps learnt in this topic. 2. Let the learners conduct a whole class discussion on the advantages and disadvantages of the different methods
shading. d. interpret	church, mosque, etc.	used to show features on a
symbols on a map,	Types of ScaleShow a photograph of a house or	тар.



- including colours /shades.
- e. estimate distance and area of features on a map using the scale.
- f. use a compass to determine direction and bearings of features on a map.
- g. use grids and names to find features on a map.
- h. appreciate that there are many types of maps and many ways of showing things on a map.

- person and ask the learners to compare this with the real size of the house or person. Ask: If a photograph reduces the real size of a house or person by a certain amount, does it reduce all parts by the same amount?
- Explain that a scale does the same thing on a map.
- Explain that all things on a photograph or map are reduced by the same amount so, to get the real size, you multiply e.g. 1 cm on a photograph or map = 10 cm in real size.
- Challenge the learners to measure lines on the ground and reduce them to the size of a paper and work out a representative fraction scale.
- In pairs, the learners:
 - discuss and express the R. F. scale each has come up with in words. Explain that this is called a statement scale.
 - draw a line scale to show the same distances. This is called a linear scale.
- Explain that we use this scale to estimate distance and area of features on maps.
- Challenge the learners to study maps with different line scales and work out distances using the scales.
- Demonstrate how to measure winding distances using the linear scale.
- Demonstrate how to calculate areas of features with different shapes on a map using a linear scale.
- Let learners do exercises to practice this skill.

Directions and Compass

• Using the same map (used above), ask the learners: How do you know which

- direction to go?
- Explain that maps show real directions of features and places.
- Let them swap maps and in pairs explain directions between specific places or features on the map.
- Through questioning, revise compass already studied at Primary school level.
- Show a map with compass directions and ask the learners for directions between specific places.
- Explain the main points of a compass.
- Let the learners individually draw a diagram showing the main points of a compass.
- Demonstrate how to determine compass bearing based on degrees of circle.
- Present a map and challenge the learners to determine the bearing of features or places.

Grid and Grid References

- Using a map, explain the meaning of a grid, including Eastings and Northings.
- Demonstrate how to find features on a map using four and six figure grid references.
- Explain that we use the four figure grid reference to find the approximate position of a feature while the six figure grid reference gives the exact position of the feature.
- Task the learners to describe the location of features on a map using grid references.
- Challenge learners to individually explain what they understand by grid reference.

Names or labels

• Using the same map (used above), let



the learners work in pairs to find	
particular features such as a river,	
lake, swamp, trading centre, etc.	
 In pairs, let the learners explain how 	
they have been able to identify those	
features.	
 Explain that sometimes the key may 	
not tell us all features shown on the	
map. So we may use names or labels	
against those features.	

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Topic 4: Using Tables, Graphs and Charts

Duration: 7 Hours

Competency

The learner knows the methods used to represent and store geographical information and uses them to analyse different aspects of the natural and human environments.

Sub-topic 1: Tables and Line Graphs

Duration: 2 hours

Learning Outcomes	Suggested Teaching/Learning Activities	Sample Assessment Strategy
The learner should be able to:	Present a table containing information in form of numbers, preferably showing	Give the leaners a table with
a. know the difference between a table and a graph.	changes in the value or amount of one item over several months or years. In groups, let the learners study	statistics e.g. about population, production,
b. know what a line graph is and the main types of line graphs.	the information to find out: - How much the item it shows is How fast it changes.	trade and ask them to construct a line graph to
c. understand that graphs can be used to store and communicate many things about the physical environment and	 How much faster it changes from one month or year to the other. Explain that the same numerical information can be interpreted more easily if it is presented on a graph. 	represent the information it contains. Let them describe the trend of the item(s) and
human activities. d. draw line graphs from statistics relating to human and physical environments.	 Using the same information, demonstrate how a line graph is constructed. Challenge the learners to interpret the graph. In groups, let the learners 	reasons for it.
e. describe certain aspects of	discuss and find out the characteristics or features of	



Learning Outcomes	Suggested Teaching/Learning Activities	Sample Assessment Strategy
geography such as trade, production and population growth from line graphs. f. describe the trend of something such as export trade, production, tourism from a line graph. g. appreciate that sometimes line graphs can tell us something more easily than words and numbers.	 a good graph. Write the learner's ideas on the chalkboard: (Suitable title, vertical scale, and a key or labels). Let the learners individually use another set of statistics showing changes in the value or amount of two items over the same period of time to construct a line graph and describe it. Explain that if we want to compare changes in amounts of different things over the same period, we can plot the figures on one-line graph called a comparative line graph. 	<i>y</i>

Sub-topic 2: Bar Graphs

Duration: 3 Hours

Learning Outcomes	Suggested Teaching and	Sample
The learner should be	Learning Activities	Assessment
able to:		Strategy
a. know what a bar	In groups:	Give the
graph is and the	- learners study a table	learners a
main types of bar	showing changes in the	drawn bar
graphs.	value or amount of one item	graph and
b. understand that	for several years or places;	ask them to
bar graphs can be	and create a bar graph to	interpret it.
used to store and	represent the information.	Ask a range
communicate	- summarise the steps	of questions
information about	followed when constructing	about the
many things in our	a bar graph and share these	graph.
environment.	during whole class	
c. draw bar graphs	discussion.	
from statistics	• Explain that such a graph is	
relating to human	called a simple bar graph and	



Sub-topic 3: Pie-Charts (Pie graphs)

Duration: 2 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Stratogy
The learner should be able to: a. know what a pie chart is. b. understand the steps followed when constructing a pie chart. c. understand the kind of information we represent using pie charts. d. draw a pie chart from statistics concerning different aspects. e. describe information about something from a pie chart. f. appreciate that pie charts can be used to represent information concerning many things including those we experience in our day to day life.	 Provide statistics and task the learners to use these to construct a pie chart. In pairs, the learners swap their charts and comment on each other's drawing. The learners discuss the characteristics of a good pie chart. In a whole class discussion, the learners identify and summarise the steps followed when constructing a pie chart. Write the learners' ideas on the chalkboard. The learners copy the steps in their note books. Explain that the values given are converted into degrees so that they can be plotted on a circle of 360°; but the finished chart is labelled using the values originally given e.g. tons, dollars, shillings or percentages. Challenge learners to suggest reasons for this. Learners individually describe what the pie chart they have drawn shows. Ask: What kind of information is represented using pie charts? Explain that we use pie charts to represent total value (amount) and how 	Give a table of figures and ask the learners to represent it on a pie chart. Ask them questions about the chart they have drawn.

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	much each individual item contributes to the total. This is called relative	
	 importance. The learners conduct a library or the Internet search for statistics about different geographical aspects and construct pie charts to represent and analyse them. 	

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Term 2

Topic 5: The Shape and Movements of the Earth

Duration: 4 Hours

Competency

The learner understands the shape and movements of the Earth and predicts the effects of the Earth's movements on the lives of people in the local area and other areas.

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be	How do we Know the Earth is	Ask the
able to:	Round?	learners to
a. know the shape of	• In groups, let the learners	imagine they
the Earth.	discuss and find answers to	have a friend
b. understand that	the following questions:	who has not
the Earth rotates	- Why can we only see a	yet studied the
on an axis.	certain distance from any	shape of the
c. understand that	place?	Earth.
the rotation of the	- What happens to the	Let them write
Earth causes day	distance we can see when	a letter to the
and night.	we climb a high hill?	friend
d. understand that	- Why is there a horizon?	describing the
the Earth moves	- What shape is the	Earth,
around the sun.	horizon on a flat plain or	including the
e. understand the	lake?	proof that it is
effects of the	- If we travel west or east	a sphere.
revolution of the	in a plane, where will we	
Earth.	end eventually?	
f. predict seasons	Demonstrate using the globe	
based on the	that the Earth is round,	
position of the	following the equator or a	
Earth in relation to	particular line of longitude	
the sun.	and return to the starting	
g. appreciate how the	point.	
movement of the	Ask: Why do people in	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
Earth in relation to the sun affects the way people live.	 different places see the rising sun at different times? Through discussion, explain that if one stands at a lakeshore, one will see a ship approaching the shore partby-part. This is because the Earth is round. Show pictures of the Earth taken from space. What shape is it? Let learners individually search using the Internet for photographs of the world taken from space. In groups, let the learners compare their findings and use these to make a summary of the available proof that the Earth is round. 	Give the learners a task to draw diagrams to show:
	Rotation of the Earth Explain that the Earth moves and not the sun and this has been proved by scientists like Copernicus. Spin the globe or football to show the axis. Explain that the Earth spins/rotates on an axis. Ask: In which direction are we moving in relation to the sun: at sunset; at sunrise? Ask: Where are we in relation to the sun: in daytime; at night? Explain that the rotation of the Earth causes day and night. Demonstrate the rotation of	- Why we have day and night Why there are seasons Use a diagram to show 4 positions of the movement of the Earth round the sun



Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
		Strategy
	the Earth with a globe or football and light source.	and ask questions
		about the
	Revolution of the Earth	seasons in
	• Explain that the earth	different
	revolves or moves round the	places.
	sun once a year.	
	Demonstrate the revolution	
	of the Earth with a globe or ball moved round the	
	classroom with a source of	
	light in the middle.	
	• Demonstrate and draw	
	diagrams to show that the	
	axis is tilted.	
	Demonstrate using a globe or factball, that makes do not a second and a second a second and a second and a second and a second and a second an	
	football that poles do not move and the equator moves	
	round fastest.	
	 Move a tilted globe or ball, 	
	with poles marked, round the	
	'sun'. Ask: Which parts of the	
	Earth are tilted towards or	
	away from the sun at different times? Ask: When	
	will it be hotter or colder:	
	when we are tilted away or	
	towards the sun?	
	Explain and demonstrate that	
	this causes seasons: hot or	
	summer when tilted towards	
	sun, and cold or winter when titled away from sun.	
	 Explain spring: moving from 	
	winter to summer; and	
	autumn moving from	
	summer to winter.	
	• Challenge the learners to	
	suggest why places near the	
	equator do not have hot and	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	 cold seasons. Move a globe or ball to a position when north is tilted towards the sun. Ask: For how long will a place near the North Pole be in the sun; for how long will a place near the South Pole be in the sun? Explain the different lengths of day and night in summer and winter. Let the learners research on the Internet or in textbooks for any sets of diagrams or pictures which explain seasons. 	

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Topic 6: Weather and Climate

Duration: 7 hours

Competency

The learner understands the main elements of weather, their causes, how they are measured and recorded and uses the weather data collected in the local area when carrying out his/her activities.

Sub-topic 1: Elements of Weather and their Measurement

Duration: 3 Hours

Learning Outcomes	Suggested Teaching and	Sample
Dear ming outcomes	Learning Activities	Assessment Strategy
The learner should be able to: a. know the meaning of weather and climate. b. understand the elements of weather. c. understand the	 What is Weather? In groups, let the learners go outside, observe and describe the weather at the moment. The learners mention the elements of weather observed. List them on the blackboard. 	1. Give the learners a task to describe the weather in the local area at the current season and suggest how this affects
c. understand the difference between weather and climate. d. understand what a weather station is and conditions influencing its location. e. know the instruments at a weather station and how each is used.	 Ask the learners to list other elements of weather not observed. Explain that these describe the weather of a place. Ask: What is climate? Let the learners individually explain what they understand by climate. In groups, let the learners explain the difference between weather and climate. 	this affects people living in the area. 2. Give the learners a task to describe the weather in different seasons in the local area.
f. measure and record weather	 Explain that weather describes conditions of the atmosphere at a particular 	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
and keep a weather diary for the local area. g. appreciate the importance of measuring and recording weather to farmers and other people. h. appreciate that weather influences our day-to-day activities.	moment; climate describes what the weather is usually like. The Weather Station Task the learners to list the elements of weather and the instruments used to measure each. List the learners' ideas on the chalkboard and add those not mentioned, if any. Explain that the place where these instruments are kept is called a weather station. In groups, let the learners discuss the conditions considered when establishing a weather station. Present a drawing of a Stevenson screen and ask the learners to describe its features. Let the learners copy this in their books. Let the learners identify the instruments kept in a Stevenson screen. As a class, the learners discuss the importance of a Stevenson screen at a weather station. The learners look up instruments found at a weather station on the Internet, textbooks or at a local weather station. Let the learners carry out a project on making some	3. Give the learners an exercise to draw diagrams of selected weather recording instruments and to explain how each is used at a weather station.



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	weather recording instruments. Let them use these to record local weather. In groups or pairs, the learners research the importance of a weather station and present their findings in a whole class discussion.	

Sub-topic 2: Clouds and Rainfall

Duration: 2 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment
The learner	Types of Clouds	Strategy 1. Give learners
should be able to: a. know the names and characteristic	Explain that there are three main types of clouds: low, medium and high. Write them on the chalkboard:	a task to work in pairs and observe clouds in the
s of the main types of clouds and rainfall.	 Cirrus (very high and thin) Stratus (medium, thick and flat) Cumulus (low, thick and tall) 	local area for two weeks. They make a report
b. understand that clouds are a collection of water droplets.	 Cumulonimbus (low, thick, tall) The learners move outside, observe and identify the types of clouds and their characteristics. Ask the learners to suggest how 	pointing out the types seen each day and their characteristic s.
c. recognise the main types of clouds by observing them from outside. d. understand	cloud cover can be measured in an area.	2. Give the learners a task in which they suggest the types of

how	cloud
cover	is
measu	red and
record	ed.
unders	tand

e. understand
how the
different
types of
rainfall are
formed.

Rainfall

• Ask the learners to mention the

- types of rainfall they know. List them on the chalkboard.In groups, the learners discuss
- In groups, the learners discuss how each type of rainfall is formed.
- The learners use diagrams to illustrate the formation of each type of rainfall.
- Ask: In which part of Uganda is each type of rainfall most likely to be experienced?

rainfall received in the local area and give for reasons their suggestions. Let them use diagrams to explain how each type of suggested rainfall is formed.

Sub-topic 3: Recording Elements of Weather on Maps and Graphs

Duration: 2 Hours

Duration: 2 Hours		
Learning	Suggested Teaching and	Sample
Outcomes	Learning Activities	Assessment
		Strategy
The learner should be able to: a. draw simple graphs to represent rainfall and temperature. b. know the different isolines used to record elements of	 Present climate statistics for a station in East Africa and challenge the learners to draw a graph to represent this. Explain that elements of weather can be represented on maps by joining places of equal amounts using lines called Isolines i.e. Isobars, Isohyets, Isohels, Isotherms. 	Give the learners two climate graphs from different climatic zones. They: a. describe the climate shown on each graph. b) suggest the
weather on maps. c. describe climate from a graph.	 Present maps with isolines and demonstrates to the learners how these are used to represent elements of weather. Let the learners do exercises to practise drawing climate graphs and isolines. 	ways of life of people living in the area represented by each graph.



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Topic 7: Introduction to East Africa

Duration: 3 Hours

Competency

The learner knows the countries making up East Africa; their comparative sizes and understands the main relief regions and human activities carried out in each of them.

Learning	Suggested Teaching and	Sample	
Outcomes	Learning Activities	Assessment	
		Strategy	
The learner should	Location, Size and	1. Give the learners	
be able to:	Countries of East Africa	a map showing	
a. know the names	• Present a wall	the relief regions	
of the countries	map/textbook/atlas map	of East Africa and	
of East Africa.	of East Africa and ask the	ask questions	
b. locate East Africa	learners to:	such as the	
on a map.	- identify the countries	following:	
c. draw a map of	of East Africa.	a) Name the	
East Africa.	- describe the position	relief regions.	
d. know the	of East Africa.	b) Choose any	
approximate size	• The learners copy the	three relief	
of the countries	map in their books.	regions and	
of East Africa and	 Present a table showing 	explain the main	
analyse these	the areas (size) of	human activities	
using a simple	individual countries of	carried out in	
graph or chart.	East Africa and ask the	each of them.	
e. know the main	learners to draw a bar	2. Give out	
relief regions of	graph or pie chart to	photographs	
East Africa and	represent this.	from different	
characteristics of		relief regions and ask the following	
each.	Relief Regions of East	questions:	
f. locate the relief	Africa	a). Describe the	
regions of East	• The learners work in	relief of the area	
Africa on a map.	groups to carry out research on the relief	shown in each	
g. draw a map to		photo.	
show the main	regions of East Africa. Let them suggest reasons	b) Identify	
relief regions of	them suggest reasons why each region is	human activities	
East Africa.	named so.	in each	
h. recognise relief	Through discussion, the	photograph and	
3220	• Imough discussion, the	photograph and	



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
regions on photographs. i. understand the effect of relief on human activities. j. appreciate that relief greatly affects the way of life of the people.	learners present reports pointing out the location, characteristics and influence of each region on people's ways of life. • Summarise their report on the chalkboard. Correct mistakes made, if any.	explain how they are related to relief. c) Suggest the relief region from which each photo could have been taken.

Topic 8: Formation of Rocks and Major Landforms in East Africa

Duration: 22 Hours

Competency

The learner understands how each of the main types of rocks and landforms in East Africa were formed and how rocks affect the lives of people.

Sub-topic 1: Rocks of the Earth

Duration: 2 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment
		Strategy
The learner should be able to: a. know the main rock types. b. describe the characteristics of the main types of rock. c. identify the main types of rocks through	 If possible, show samples of some of the main types of rock and ask the learners to identify any differences they can see. In pairs, the learners discuss what they understand by a rock and present their views to the class. 	1. Give the leaners a group task to carry out a fieldwork study of a local area to identify rocks in the area. They explain how rocks affect landscape and human activities
fieldwork. d. use diagrams to describe how the main rock types were formed. e. understand the influence of rocks on landform formation. f. understand the influence of rocks on landform formation.	 Explain that every rock is a combination of minerals. Explain that there are three main types of rock: Igneous/volcanic rock. Sedimentary rocks. Metamorphic rocks. The learners research from textbooks or on the Internet for diagrams illustrating how each type of rock is formed. In groups, the learners 	in the area. 2. The learners choose any two types of rocks and draw diagrams to explain how they are formed. 3. Let the learners imagine they live in an area with one of the rock types. Let them suggest how the



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
people's ways of life. g. appreciate that rocks greatly influence landforms and human activities.	carry out a fieldwork study of a local area to identify rocks in the area. Let them discuss the influence of rocks on landforms and human activities.	rocks would affect their own lives.

Sub-topic 2: Faulting, Down Warping and Vulcanicity

Duration: 8 Hours

Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
		Strategy
The learner should be	Faulting	1. Task the
able to:	• Show diagrams of	learners to
a. know the meaning	faulting. Ask: If a fault or	use a diagram
and causes of	crack occurs, what might	to explain
faulting.	happen to the land along	how any one
b. know the relief	the fault line?	landform in
features resulting	• Explain with the aid of	East Africa
from faulting.	diagrams faults and the	was formed
c. use diagrams to	main effects of faulting,	due to
explain the	including rift valleys,	faulting. Let
formation of faulted	block mountains and	them explain
landforms.	escarpments.	how the
d. locate features	Show the map of East	landform
formed by faulting	Africa and ask where the	affects the
on a map.	rift valleys and block	lives of the
e. recognise faulted	mountains are (eastern	people.
landforms on	and western rift valleys	
photographs.	and block mountains –	
f. understand the	Rwenzori, Usambara,	
benefits and	Pare, etc.)	
problems	The learners individually	
associated with		

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
features formed by faulting. g. appreciate that faulting has both positive and negative effects on our ways of life.	conduct on other features resulting from faulting. In groups, the learners discuss and suggest the advantages and problems of living in an area with features formed by faulting. Let the learners search the Internet or textbooks for diagrams of features formed by faulting. Let them draw these in their books. Case Study: The Rhine Rift Valley Using the map of Germany, describe the extent of the Rhine Rift Valley. Ask the learners to draw a cross section of the rift valley and annotate it. Let the learners draw diagrams to explain how the Rhine Rift Valley was formed. Show photographs of farms in the Rhine Rift Valley and ask the learners to explain how relief influences human activities in the region, including the likely problems facing farmers in the area. In groups, the learners conduct research about	



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	factors favouring viticulture in the Rhine Rift Valley and the benefits of this type of farming.	berategy
a. understand the meaning of	VulcanicityAsk the learners: What	Give an exercise about the
vulcanicity. b. know the features formed by volcanic	happens when molten rock material rises to the earth's surface? Where	dangers and advantages of living in a volcanic area.
eruptions c. use diagrams to explain the	does this occur in East Africa?Explain using diagrams	Let them learners explain why
formation of volcanic features. d. draw a map to	how volcanoes, including volcanic mountains, plugs, craters, and	volcanic areas or former volcanoes often have a high
show volcanic features in East Africa.	calderas are formed.Using diagrams, explain how sometimes molten	population density.
e. recognise volcanic features on	rock may fail to reach the surface of the earth.	
photographs. f. understand the benefits and problems associated with	When it cools and solidifies inside the crust, it forms underground/intrusive features e.g. batholiths,	
volcanoes. g. appreciate that volcanoes have both positive negative effects on our lives.	sills and dykes. Explain that the features formed when molten rock cools and solidifies inside the earth's crust are called intrusive igneous landforms. Let the learners suggest the advantages and problems of living in a volcanic area. Let the learners look for diagrams and pictures of volcanoes in East Africa	

Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
		Strategy
	on the Internet.	
a. understand what	Down Warping	1. Give the
down warping is	Ask the learners: What is	learners a
and the forces that	a plateau? How much of	task to use (a)
cause it.	East Africa is a plateau?	diagram(s) to
b. draw diagrams to	Using a diagram, explain	explain the
explain the effects	how the plateau can be	effects of
of down warping	warped or sink down	down
on landscape. c. locate down	slightly in some places.	warping on landscape in
warped lake basins	• The learners suggest	landscape in East Africa.
on a map.	where this has happened	2. The learners
d. appreciate that	most in East Africa. (L. Victoria and L. Kyoga	explain the
down warping has	basin).	benefits the
great influence on	• The learners copy the	people of East
the relief, drainage	diagram and summarise	Africa get
and resources of	the process of down	from down
East Africa.	warping in their	warped
	notebooks.	features.
	• In groups, the learners	
	discuss the benefits and	
	problems of the features	
	formed by down warping.	

Sub-topic 3: Landforms Resulting from the Wearing a way of Rocks of the Earth

Duration: 12 Hours

Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
		Strategy
The learner should be	Rock Weathering	Give the
able to:	• Present samples of	learners an
	unweathered rock and loose	exercise to
a. know what	rock material or soil and ask	draw a tree
weathering and	the learners to examine them.	diagram to
landslides are.	• Explain that the loose	summarise
b. understand the	material was at one time a	the types of



Learning Outcomes	Suggested Teaching and	Sample
Learning Outcomes	Learning Activities	Assessment
	Learning Metrotics	Strategy
main types of weathering and landslides. c. understand the conditions under which each type of weathering and landslides take	 hard rock material. The learners are tasked to explain how the rock material could have broken into the loose material. Explain that the process by which rocks are broken down into loose material is called 	weathering. The learners briefly explain any two processes of each type of weathering.
place. d. recognise the effects of weathering on rocks through fieldwork.	 weathering. Explain the main types of weathering, their processes and conditions under which each takes place: 	S
e. recognise the effects of landslides on landscape and human activities on	 Physical weathering Chemical weathering Biological weathering In groups, let the learners conduct a field study of a 	Table the
photographs. f. realise that weathering influences human activities. g. realise that	local area to identify the effects of weathering on rock material and human activities. The learners then present their reports to the class for discussion.	Task the learners to imagine they live on a mountain slope that
landslides affect human activities	Landslides	receives heavy rains.
negatively. h. appreciate the need to regulate human activities on steep slopes in order to prevent landslides.	 Using diagrams or photographs, explain the main types of landslides: Mudslides, soil creep, rock falls and earth flows. Challenge the learners to identify places in East Africa which experience landslides. List these on the chalkboard: Mt. Elgon region, Mt. Rwenzori, Kigezi highlands etc. Ask the learners: When do 	Let them explain the precautions they would take to avoid the occurrence of landslides.

Learning Outcomes	Suggested Teaching and	Sample
Learning Outcomes	Learning Activities	Assessment
	Learning Activities	Strategy
	 landslides occur? Explain that landslides commonly occur in steep, wet highland areas. In groups, let the learners study photographs of landslides and find answers to the question: How does a landslide affect: a) Landscape? b) Human activities? In groups, let the learners discuss and suggest ways of preventing landslides. 	J. L.
a. know the meaning	Erosion by Ice (Glaciation)	Task the
of glaciation and features resulting from glaciation. b. understand the processes by which ice erodes and transports rock material. c. draw diagrams to explain the formation of landforms by ice. d. recognise on photographs the features formed by ice. e. explain the benefits and problems of glaciation. f. appreciate the positive and negative effects of glaciation on people's lives.	 Present photographs showing ice on mountains e.g. Mt. Rwenzori, Mt. Kenya, or Mt. Kilimanjaro. Ask the learners: What will happen to the rocks and soil when ice moves? Use diagrams and photos to explain the processes of glaciatial erosion: frost action, plucking, abrasion. Using the same diagrams and photos you have used above, explain the features formed by glacial erosion: cirque/corrie, tarn, arêtes, glacial troughs, pyramidal peak/horn, hanging valleys, etc. Let the learners copy these in their notebooks. Explain that the rock material eroded and carried by ice glaciers is called moraine or 	learners to use diagrams to explain any one glacial landform in East Africa. Let them explain the likely effects of glacial features on human activities in the areas where they exist.



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	 Let the learners discuss the benefits and problems of glaciation. List the ideas given by the learners on the chalkboard and add any not mentioned. 	
a. know what a coast is and the main features found at the coast. b. know what waves are and the main types of waves. c. understand how the main coastal landforms were formed by waves. d. recognise coastal features in photographs. e. understand how coastal features affect people's ways of life. f. appreciate that coastal features have both positive and negative effects on people.	Lake and Sea Coasts: Coastal Features If possible visit a lake, observe and ask the learners: How does the water move? What causes it to move? What effects does this have where the waves break? Where does the material on the shore come from? Using diagrams, explain how waves move, break against the coast, and how they erode material from the coast: hydraulic action (breaking waves hit the coast and remove some rock material along cracks). Use diagrams and photos to explain coastal features formed by wave erosion: cliffs, notches, caves, blow holes, arches, stacks, etc. Use diagrams and questions to explain coastal features formed by deposition: beaches, spits and bars, lagoons, etc. In groups, let the learners discuss the benefits and problems of coastal landforms.	Use a scenario of a family living by a lakeside with numerous erosional and depositional features, and ask the learners to explain how any two features in each category were formed. Let them suggest how the family can use those features to earn a living.
a. know what coral	Coral Reefs	Give the

Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
		Strategy
reefs are and places where they are found. b. know the different types of coral reefs. c. understand the conditions under which coral reefs form.	 Present photographs of coral reefs and ask the learners to describe the features shown and to suggest what they are. Explain that tiny creatures called coral polyps live in some areas of the sea near the shore. When they die, their skeletons get cemented 	learners a task to use diagrams to describe any two types of coral reefs. Let them give reasons
d. use diagrams to illustrate the different types of coral reefs.	together to build a solid white rock called coral limestone. • Explain that when coral	why there are no coral reefs in inland lakes
e. recognise coral reefs on photograph.	forms a chain of rocks covering a large area, it is called a coral reef .	such as L. Victoria and L. Kyoga.
f. appreciate that the coral reefs influence people's ways of life.	 Using diagrams, explain the different types of coral reefs: Fringing reefs Barrier reefs Atoll 	Li ity ogai
	 In groups, let the learners discuss and suggest the benefits and problems of coral reefs. Write the learners' ideas on the chalkboard and add those not mentioned, if any. In groups, let the learners do research about coral reefs, conditions favouring their formation and places where they occur in East Africa. Let the groups present their findings in a whole class discussion. 	



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Term 3

Topic 9: Rivers and Drainage Patterns in East Africa

Duration: 9 Hours

Competency

The learner understands how rivers modify landscape, their benefits and problems; and appreciates the different ways river valleys can be harnessed for development.

Sub-topic 1: The Work of Rivers on Rocks 3 Hours

Learning	Suggested Teaching and Learning	Sample
Outcomes	Activities	Assessment
		Strategy
The learner should	Challenge the learners to explain	Task the
be able to:	what a river is and how rivers form.	learners to think of any
a. know the	• Ask the learners: Where in East	river they
difference	Africa are rivers likely to start?	know in East
between a	• The learners name any three	Africa. Let
stream and a	rivers they know in each country	them describe
river.	of East Africa. List these on the	how this river
b. know the major	chalkboard.	erodes its
rivers of East	• Using a wall map, atlas or	valley or
Africa and their	chalkboard, show the main rivers	deposits
names.	of East Africa. Ask the learners to	material.
c. draw a map	identify the rivers they have	
showing the	mentioned and to draw it in their	
major rivers of	110 teb o o ito:	
East Africa.	• If possible, let the learners visit a	
d. understand how	river or stream and observe how	
rivers change	it erodes the land, carry its load	
landscape	and deposit.	
through erosion	• Explain the four processes by	
and deposition.	which a river erodes its valley.	
e. understand the	 Using diagrams and photos, 	



Learning	Suggested Teaching and Learning	Sample	
Outcomes	Activities	Assessment	
main stages of a river valley and the features of each stage. f. identify the effects of rivers on landscape through fieldwork. g. appreciate that rivers greatly affect landscape and human activities.	explain the main stages of a river course and features found in each: youthful stage, mature stage, old stage. • Let learners visit a local stream or river to identify the stages and related features. • Give the learners the task to look up on the Internet each of the features along a river valley and find their photographs.	Strategy	

Sub-topic 2: Drainage Patterns

Duration: 1 Hour

Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
		Strategy
The learner should	 Using diagrams or topographic 	Give out a
be able to:	maps of different areas,	survey map
	challenge the learners to work	of a hilly or
a. know the main	in groups to identify the main	dissected
patterns formed	rivers and their tributaries.	plateau area.
by streams and	• In groups, let the learners	Use this to
rivers on	describe how each river and its	ask
landscape.	tributaries are arranged on the	questions on
b. draw diagrams to	ground over which they flow.	the main
illustrate the	• Explain that the plan formed	drainage
main drainage	on the ground by rivers and	patterns.
patterns.	their tributaries is called a	
c. recognise	drainage pattern. All rivers do	
drainage	not have the same drainage	
patterns using	pattern.	
survey maps and	The learners individually draw	
photographs.	diagrams of different drainage	
d. appreciate that	patterns in their notebooks	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
the flow of streams and rivers is influenced by relief and nature of the rock.	r	

Sub-topic 3: How River Valleys Affect People's Ways of Life

Duration: 5 Hours

Du	Duration: 5 Hours			
	arning	Suggested Teaching and Learning	Sample	
Ou	tcomes	Activities	Assessment	
			Strategy	
	e learner should able to:	 Learners work in groups to find answers to the questions: Have you ever lived near a river or 	1. Ask the learners to think of	
a.	understand the benefits of rivers to people.	seen people living near a river? What benefits do people get from rivers?	any one river they know in	
b.	understand the problems faced by people living in river valleys.	 Let group ideas feed into a whole class discussion. List these on the blackboard and add those not listed if any. 	East Africa and explain how	
C.	locate the Tennessee River Valley on a map.	 In groups, let learners discuss the problems people living in river valleys are likely to face 	useful it is to the people in	
d.	know the names of states in the	and suggest ways of overcoming these.	the region.	
e.	Tennessee River Valley. understand,	List these on the blackboard and add any not mentioned	2. Give an exercise	
	through case studies, how the problems facing	Case Study of Development of a River Basin: The Tennessee River Valley (USA)	about the Tennessee Valley	
	people in river valleys can be overcome.	 In pairs, the learners study a textbook, atlas or chalkboard 	Authority and its activities	
f.	draw a map to show the area of	map to identify the area drained by the Tennessee River and its	in the Tennessee	



			ggested Teaching and Learning tivities	Sample Assessment Strategy
g.	the case study. recognise through photographs the benefits and problems of river valleys. appreciate the need for government programmes to develop river valleys.	•	tributaries. The learners suggest the problems people living in the Tennessee Valley area are likely to be facing. Pair ideas feed into a class discussion. List these on the chalkboard and add any unmentioned problems. Explain that those identified problems were faced in the Tennessee Valley before 1933. Explain the general living conditions in the region before the creation of the Tennessee Valley Authority. Let the learners suggest the steps that might have been taken to improve on the living conditions in the region. List these on the chalkboard and explain other steps that were taken by the Tennessee Valley Authority to improve on the living conditions in the region. In groups, the learners conduct a library/internet research on the benefits and problems created by the Tennessee Valley in the region.	River basin. The learners compare the utilisation of rivers, as a resource, in East Africa and USA.

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Topic 10: The Soils of East Africa

Duration: 6 Hours

Competency

The learner understands the processes of soil development, causes and ways of controlling soil erosion in order to conserve soils and landscape.

Sub-topic: Soil Types and Soil Development

Duration: 6 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be able to: a. know the main types of soil and [places where they occur. b. understand the main processes of soil	 Soil Types Present samples of the main soil types and let the learners work in groups to identify each type of soil. Explain that soil is divided into three main types: loam soil, clay soil, sandy soil. Using the same soil samples, ask the learners to suggest materials from which each soil type is formed. Explain that soil is formed from rocks and the remains of living things, especially vegetation. 	1. Group the learners and task them to conduct a fieldwork study of a local area to identify the soil types and soil catena. Groups write
formation and developmen t. c. understand that soil mainly develops from rock materials. d. recognise, through fieldwork, the types of	 With the help of questions, revise rock weathering and soil formation, and factors influencing soil formation. Using a diagram of a simple soil profile, ask the learners to draw it, identify and name the layers. Explain that sometimes the soil profile may have a hard stony reddish-brown layer in the sub-soil. This is called laterite. Explain that laterite is formed by leaching. 	reports and share these in class. 2. Give an exercise on the causes and dangers of soil erosion, and ways it can be



Learning	Suggested Teaching and Learning	Sample
Outcomes Activities		Assessment
		Strategy
soil. e. know the main types of soil erosion and	Ask the learners: Have you ever seen a garden on a hill slope, or have you moved along a hill slope from the valley up to the hill top? Is the same time of soil found along the hill from	prevented.
their causes. f. understand the problems caused by	 type of soil found along the hill from the bottom to the hill top? Using a diagram, explain a soil catena. Allow the learners to copy the diagram and annotate it. 	
soil erosion especially on farmland. g. explain the	In groups, guide the learners to discuss and suggest why soil changes with height even over a small area	
different methods used to control soil erosion and suggest those suitable to the local area. h. appreciate the need to sensitise farmers on the dangers of soil erosion and the need to conserve soil.	 Soil Erosion and Soil Conservation in East Africa The learners observe a gentle area outside the classroom. Ask: What happens to some of the soil when it rains? Explain that when rain water flows over bare ground, it washes away top soil over a wide area. This is called sheet erosion. Let the learners observe any steep slope or a drainage trench on the roadside. Ask: What happens to the soil when it rains? Explain that on steep slopes, water running downslope collects in small channels called rills and deepens them as it washes away more soil. This is called rill erosion. Ask the learners to individually draw a simple diagram to illustrate this. Ask the learners: What happens to rills if more water runs along them and removes more soil? Explain gully erosion. The learners individually draw a 	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment
		Strategy
Outcomes	simple diagram to illustrate gully erosion. In groups, guide the learners to discuss and suggest which of the three types of soil erosion is most destructive and why. Let the learners list areas they know in Uganda and the rest of East Africa which experience soil erosion. List them on the chalkboard. Task the learners to study and draw a textbook or chalkboard map of East Africa showing areas affected by soil erosion and identify those they have listed. Use question technique to discuss the main causes of soil erosion in different areas of East Africa. In pairs, let the learners carry out library or the Internet search on ways of controlling soil erosion, and places in East Africa where each method is used. Pair findings feed into a class	
	discussion.	
	• Summarise these on the chalkboard and add those left out, if any.	

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- Kaggwa, H., Mugumya R., Sepuya N., and Mutyaba, J. C. (2007). *MK Integrated Secondary Geography. Student's Book 1.* pp. 74-86.
- Michael, S. (1985). *Tropical Lands.* Longman Group Limited, Burnt Mill. pp. 35-38.
- Michael S. and Wegulo, F. N. (1992). *A Complete Course in Human and Economic Geography*. Longman Kenya Ltd., Nairobi. pp. 31-43.



Topic 11: Climate and Natural Vegetation of East Africa

Duration: 8 Hours

Competency

The learner understands the main types of climate in East Africa, and how the climate influences the vegetation and ways of life.

Sub-topic 1: Types of Climate and Factors Affecting Climate in East Africa

Duration: 5 Hours

Learning	Suggested Teaching and Learning	Sample
Outcomes	Activities	Assessment
		Strategy
The learner should be able to: a. know the main types of climate in East Africa. b. understand the characteristics of each type of climate in East Africa. c. locate the types of climate in East Africa on a map. d. understand the factors affecting the climates and their distribution. e. understand	 Types of Climate in East Africa Show a climate graph for each type of climate, un-named (Use two Savannah graphs for north and south of the equator). In groups, the learners describe climate from the graph, answer questions and describe the type of climate. Show all climatic regions on wall or chalkboard map. Explain by questioning from climate graphs: Equatorial, Savannah, semi-arid, Montane and coastal climates. Let the learners draw sketch maps to show climatic regions of East Africa. How Climate Influences People's Lives 	
how climate affects people's lifestyles in each climatic region.	 Present photographs showing land use and people's ways of life in different climatic regions of East Africa. 	climatic regions marked, not named. Learners use a

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
f. appreciate that people's ways of life are mainly influenced by climate especially rainfall amounts and distribution.	 In groups, the learners study each photo and suggest how the climate affects the way people in that type of area live, what economic activities they carry out, their dressing styles, etc. Explain that traditionally, the way people lived depended mainly on the climate. Challenge the learners to suggest why many people's way of life is less affected by the climate today. 	key and shading to show the names of each type of region.
	Factors Affecting the Climate of East Africa Temperatures and Rainfall Through questioning, revise Topic 6: Why do most places in East Africa have a hot climate? Which places are cooler and why? Ask the learners: Which type of rainfall is formed when hot air rises into the atmosphere? Explain that because most places are hot, the most important type of rainfall in East Africa is convectional. The learners work in groups to find answers to the following questions: i) When is the northern hemisphere tilted towards the sun and when is it towards the southern hemisphere? ii) What months will it be hottest in East Africa north of equator; and what months will be hottest in south? Explain that most rain occurs at the hottest time (summer). Ask questions and explain other	



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	factors affecting temperature and rainfall.	

Sub-topic 2: Natural Vegetation of East Africa

Duration: 3 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be	Types of Vegetation	Give out a
able to:	 Present photographs of 	sketch map of
a. know the main	each type of vegetation and	East Africa
types of natural	ask the learners to study	with
vegetation in East	them.	vegetation
Africa.	• In groups, the learners	types marked,
b. draw a map to show	describe vegetation and	not named.
the main types of	suggest, with reasons, what	The learners
vegetation in East	type of climate it comes	use shading
Africa. c. understand the	from.	and construct
c. understand the factors affecting	• Let the learners use their	a key to show the names of
vegetation	knowledge of climate of East Africa to draw a sketch	each type of
distribution in East	map showing vegetation	vegetation.
Africa.	types.	They explain
d. understand the	By questioning, discuss	the
relationship	other factors influencing	characteristics
between climate and	vegetation distribution in	of any two
vegetation in East	East Africa.	vegetation
Africa.	• In pairs, the learners	types.
e. recognise vegetation	discuss and suggest why	
types on	some types of vegetation in	
photographs.	East Africa (e.g. Equatorial	
f. carry out fieldwork	forests and Savannah	
and identify	woodlands) are decreasing	
vegetation types and	is size.	
their benefits to the	• In groups, let the learners	
local people.	visit a local area;	
g. appreciate the need	investigate vegetation types	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
to conserve natural vegetation including that in the local area.	and how each type benefits the community.	

- Hickman, G. (1994). *Lands and Peoples of East Africa.* Longman Limited, Burnt Mill. pp 10-19.
- Irandu, E., M. (2000). *Target Secondary School Geography; Form 2 Student's Book.* Longhorn Publishers (K) Ltd., Nairobi. pp.58-80.
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Topic 12: Forestry in East Africa

Duration: 8 Hours

Competency

The learner understands factors affecting the development of forestry, the contribution of forestry to the economy, the dangers facing forest resources in East Africa and ways to make them sustainable.

Lea	rning	Suggested Teaching and	Sample	
	tcomes	Learning Activities	Assessment	
0 021			Strategy	
The	learner	East Africa's Forests and their	1. Give statistics	
sho	uld be able to:	Value	or photographs	
a.	know what	 Ask the learners: What are 	about forestry	
	forestry is, the	the main types of forest in	in both East	
	main types of	East Africa? List them on the	Africa and	
	forests and	chalkboard: natural and	British	
	examples of	planted forests.	Columbia and	
	each.	• Ask the learners: From your	ask questions	
b.	draw a map of	previous knowledge, where	about them.	
	East Africa	are the main natural forests	The learners	
	and locate the	in East Africa found, and how	use their	
	main types of	are these forests related to	knowledge	
	forests.	the climate? What tree	about forestry	
C.	know the	species do you know that	to interpret and	
	major tree	grow in these forests? What	analyse the	
	species in East	type of timber do they	stimulus	
	Africa and the	produce?	materials given.	
	case study	• Learners draw a map	2. Give a task	
	area and how	showing the main types of	involving	
	they affect	forest in East Africa.	imagination	
	development	• In groups, the learners	that one is in a	
	of the forest	discuss the benefits of	position	
1	industry.	forests. Group ideas feed into	controlling all	
d.	understand	a whole class discussion.	forests in a	
	factors	• In groups, the learners study	country or	
	affecting	photographs of logging,	district. Ask	
	forestry.	describe what they see and	questions	
e.	understand	construct a flow diagram to	concerning:	
	the benefits	show the production, use	a) destruction of	
	and problems	and export of timber (show	forests.	

Learning		Suggested Teaching and	Sample
	itcomes	Learning Activities	Assessment
		J	Strategy
f.	associated with forestry. understand the challenges facing the development	clearing roads/paths, felling a tree, cutting timber into logs, transportation, log collection points, export overseas or local use in a timber factory).	b) policies to control the cutting down of forests. 3. Give the learners a task
g.	of forest resources. understand, through case studies, how forest resources	 The learners suggest why it is better to process the timber and make wood products in East Africa than selling logs overseas. Ask: What kind of factory can be developed to process 	to compare aspects of forestry in British Columbia and East Africa.
h.	have been developed in other parts of the world. draw a map showing the forested	wood into products? What are the difficulties in doing this (furniture industry, building, paper; main difficulty is inadequate capital)?	
i.	areas, major timber centres and ports in the case study area. recognise features related to forestry from photographs. appreciate that forests are an important resource which should be conserved.	 Destruction of Forests in East Africa Ask the learners if they have heard of destruction or illegal cutting down of forests in Uganda. Why is this happening? What are the trees used for? Explain that this is happening in all forested areas of East Africa. Ask: What are the dangers of cutting down too many forest trees? What are the difficulties of controlling this? The learners suggest how this can be controlled and 	
k.	draw simple graphs and	how we can replace the forests.	



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
charts to represent statistics related to forestry.	 Explain that replanting only works partially because planted forests do not contain the same variety of species as natural forests and hard wood trees take long to grow. Let the learners look up information on the Internet 	
	about deforestation in Africa. Case study: Forestry in British Columbia Location, relief, soils and vegetation	
	 The learners use a wall map or chalkboard map, atlas or the Internet to locate British Columbia. 	
	 Explain that it is a province in Canada and called British Columbia because Canada used to be ruled by the British. 	
	 The learners describe relief from the wall or atlas map. Ask: Can this kind of relief allow farming to be carried out so that people can get food and raw materials for 	
	 industries? In groups, let the learners use the position and relief of British Colombia to describe the climate of British Columbia. 	
	 Ask: With that kind of relief, do you expect British Columbia to be having deep fertile soils? 	

Loarning	Suggested Teaching and	Sample
_		_
Outcomes	Learning Activities	
Learning Outcomes	 Explain that the soils of British Columbia are thin, porous and infertile. This discourages crop farming in most parts of the province except in a few valleys with alluvial soils. In groups, let the learners identify some of those valleys on the maps. Allow the learners study photographs showing areas in British Colombia and describe natural vegetation (forests especially coniferous forests). Let the learners use the Internet to find photographs of natural vegetation in British Colombia. Let the learners use photographs to describe the nature of forests in British Columbia and compare them with the tropical forest of East Africa. Ask: What types (species) of trees are likely to grow in the forests of British Columbia? List these on the chalkboard: Douglas fir, Balsam fir, spruce, Western hemlock; red, white and yellow cedar, Ponderosa pine, etc. Use of Forests: Logging 	Sample Assessment Strategy
	• Explain that Europeans	
	developed large scale	
	logging. In pairs, let the learners	
	study photographs and	



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	describe stages in logging or 'lumbering' and movement of timber to sawmill and markets.	
	 Let the learners use the Internet or library research to look for information about the use forests in British Colombia. Let the learners suggest difficulties of logging, including fire graphlane. 	
	 including fire problems and need for fire guards. Let the learners suggest dangers of cutting too many trees: deforestation and effects on climate, wildlife and soils. Allow the learners to suggest possible solutions: limiting 	
	number of trees cut, replanting, etc. Processing Timber	
	 Ask: Have you ever seen or read about a timber processing factory? What activities take place at the factory? List the responses on the chalkboard and add those not mentioned, if any. Ask: What products are got from logs? List the responses on the chalkboard and add those not mentioned, if any. Let the learners study maps and identify the major timber ports and processing 	
	centres in British Columbia. They draw the maps in their	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment
	S	Strategy
	notebooks.	5,
	Factors Favouring Forestry	
	• The learners use their knowledge about climate, relief, soils and vegetation to explain natural factors favouring forestry in British Columbia.	
	Ask: What human factors may encourage the development of forestry? List the learners' responses on the chalkboard and add others not mentioned, if any.	
	Benefits of the Forestry Industry	
	• In groups, guide the learners to discuss and suggest the importance of conserving forests in British Colombia. List their responses on the chalkboard. Add those not mentioned, if any.	
	Problems Facing Forestry and	
	Ways of Overcoming them	
	 In pairs, task the learners to carry out research on the problems facing forestry in British Columbia and how they are being solved. 	
	 Pair findings feed into a class discussion. Summarise their views on the chalkboard and add those not mentioned. 	



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LEVEL 2

Term 1

Topic 13: Fishing in East Africa

Duration: 8 Hours

Competency

The know the main fishing areas in East Africa and understands the factors affecting the development of fishing, the contribution of fishing to the economy, problems of fishing and ways fish resources can be used sustainably.

Sub-topic 1: Major Fishing Grounds and Factors Favouring the Development of Fishing

Duration: 8 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be able to: a. know the major fishing grounds in East Africa, inland and on sea. b. describe the methods of catching and preserving fish. c. explain the difference	 The Fishing Grounds of East Africa Ask the learners to name areas where people fish in East Africa. What sorts of places are they? Explain two types of fishing areas: the sea and coast (marine); lakes and rivers (in land). Use a wall map, chalkboard, sketch map or atlas map to show main fishing areas of East Africa. 	1. Task the learners to choose any one area of East Africa useful for fishing. Let them suggest the best methods to use to gain a good
between traditional and modern	methods are used, where and how the fish are sold, what problems the fishing people have, etc.	income but preserve



	rning tcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
d.	fishing methods. understand the factors favouring	 Ask the learners what kinds of methods of fishing they have used or observed. Volunteers sketch these on chalkboard and explain methods. Draw diagrams of the main traditional 	the fish for future generations.
e.	fishing in East Africa. recognise aspects related to fishing in	methods and ask the learners to copy these and explain methods (spears, gill nets, fishing lines, traps, baskets, bow and arrow). • Draw diagrams of modern methods of fishing and explain them (trawling, drift	2. Give statistics or graphs about fishing in both East
f.	photographs . analyse and represent statistics on fishing using simple graphs and	 nets, long lining, purse seining and dynamite blasting). The learners copy the diagrams. The learners discuss the advantages and disadvantages of each method of fishing, and indicate whether traditional or modern methods are best for conserving fish. 	Africa and British Columbia and ask questions about them. The
g.	charts. understand the benefits of fishing to the people of	 Explain the dangers of some modern methods (drift net and blasting) and why these are banned. Ask the learners to suggest dangers of 	learners use their knowledg e of fishing to
h.	East Africa and Canada.	 using nets with small holes and catching too many young fish and why people do it. Task the learners to use the Internet or library research to find out more about fishing in East Africa. 	interpret and analyse the informati
i.	fishing in East Africa and how they can be overcome. understand,	 Preservation of Fish Ask the learners if they know of the methods of preserving fish so they can be sent long distances (smoking, salting, sundrying, canning, and freezing). 	on given.
	through case studies, the dangers to fishing grounds and	 Factors Favouring Fishing Ask the learners to discuss what they think may encourage fishing: Well stocked fishing grounds Different species 	

Learning	Suggested Teaching and Learning	Sample
Outcomes	Activities	Assessment
		Strategy
how these can be prevented. j. draw a map of the case	 Markets and good transport to markets Capital to buy fishing gear Government policy to enforce laws against over-fishing and pollution 	
study area showing the main fishing grounds. k. appreciate the need for strict laws to conserve fish resources.	 Benefits of the Fishing Industry Let the learners discuss and suggest the benefits the fishing communities and the country can get from fishing. List the learners' ideas on the chalkboard and add those left out, if any. Ask the learners to copy the benefits in their notebooks and illustrate each with relevant examples from East Africa. 	
	 Problems Facing the Fishing Industry in East Africa In groups, let the learners discuss the problems limiting the development of fishing in East Africa. Groups share their ideas in a whole class discussion. Summarise the views on the chalkboard, clarify them through explaining and add any left out. 	
	 Solving Problems Facing Fishing in East Africa In groups, let the learners discuss how the problems limiting development of the fishing sector can be solved. Group ideas feed into class discussion. List the solutions on the chalkboard and explain more where necessary. Add any solution left out. Case Study: Fishing in British Columbia Main fishing grounds and methods of 	



Learning	Suggested Teaching and Learning	_
Outcomes	Activities	Assessment Strategy
	 catching fish Revise the background to British Columbia in the previous case study on forestry. Let the learners use a wall map or chalkboard map and atlas to suggest places in British Colombia where fishing takes place. List their views on the chalkboard: Pacific Ocean, at river mouths, rivers in the interior. Let them draw a map showing the main fishing grounds. Use photographs or pictures to show the main types of fish caught (salmon, halibut, sable fish, rock fish, cod herring). Use pictures for the learners to describe methods of fishing. Ask: How are these methods different from those used in East Africa? 	
	 Methods of Preserving Fish and Factors Favouring Fishing in British Columbia If possible, give a table of statistics about methods used to preserve fish in British Columbia. The learners draw a pie chart or bar graph to represent these. Or explain the methods. Ask: Which method is used to preserve the largest amount of fish, and why is this so? The learners use the map of fishing grounds, knowledge about methods used to catch and process fish to suggest factors favouring fishing in British Columbia. Explain other factors and list them on the chalkboard. In groups, let the learners carry out research about the benefits of fishing in British Columbia and Canada. Let them 	

Learning	Suggested Teaching and Learning	Sample
Outcomes	Activities	Assessment
		Strategy
	present reports.	
	Problems Facing Fishing in British	
	Columbia	
	• Let the learners suggest possible dangers	
	to fishing industry, partly using	
	knowledge from the study of East Africa:	
	over-fishing, catching young fish, using	
	small-holed nets, etc.	
	Use diagrams to show the life cycle of	
	salmon and journey up and down rivers.	
	• Explain blocking of travel of fish down	
	and up rivers by building hydro-electric	
	dams and need to provide 'steps' for fish	
	to climb up by jumping.	
	Discuss conflict between the need for hydro electricity and the needs of fishing.	
	hydro-electricity and the needs of fishing.	
	Ask how mining and industries may nollute rivers and the sea	
	pollute rivers and the sea.	
	• Explain other ways of conserving fish resources in British Colombia.	

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Topic 14: Population and Urbanisation in East Africa

Duration: 8 Hours

Competency

The learner understands and appreciates the factors influencing population growth and distribution in East Africa and the effects this has, including on environment and urbanisation.

Sub-topic 1: Population Growth and Distribution

Duration: 2 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be able to: a. know the meaning of population growth, distribution, density, under	 Population Growth Present population figures of any one country of East Africa for at least five censuses. Let the learners individually draw a line or bar graph to represent the information. 	1. Give the learners the task to write an essay on why Uganda's population is growing too
population and over population. b. understand the causes of rapid population growth. c. understand the	Let them use the graph to describe how the population is growing. • Ask: Is the population changing fast or slowly? What is causing this (birth and death rates, and rate of natural increase)?	rapidly and, the measures we should take to reduce the rate of growth.
problems of rapid population growth. d. know the areas of high,	 Explain the factors leading to population increase, e.g. improved medical care, cultural and religious beliefs, etc. 	2. Give out a map showing population density in East Africa with a key.
moderate and low population density. e. draw a map to show areas of	Distribution and Density of Population • Present a wall map, chalkboard map or atlas to show distribution of	Task the leaners to choose any two areas with different

	arning itcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
f.	high, moderate and low population density. draw simple	population in East Africa. Let the learners copy the map in their notebooks. • Let the learners work in	densities and give reasons for the differences.
1.	graphs and charts to analyse population statistics.	groups to list: a) areas of high population density b) moderate population density c) low population density Let the learners suggest	
g.	understand factors affecting population distribution in East Africa.	 reasons for areas of high and low density. Using the learners' ideas, explain the factors affecting density of population in East Africa: 	
h.	understand the effects of high and low population	 In groups, ask the learners to discuss the problems of high population densities in rural areas. 	
i.	density. suggest ways of reducing rapid population growth.	 Group ideas feed into whole class discussion. List the learners' views on the chalkboard and add others not given if any. 	
j.	appreciate the need to reduce a rapidly growing population.	Problems of Rapid Population Growth • Let the learners hold a debate or discussion on whether the rate of population growth in Uganda needs to be reduced, and if so, how can this be done. Include cultural and religious issues.	



Sub-topic 2: Rural-Urban Migration and the Growth of Urban Areas

Duration: 6 Hours

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
The learner should be able to: a. understand what rural-urban migration is and factors	 Rural-Urban Drift In groups, the learners discuss reasons for rural-urban drift: pull factors and push factors. List these on the chalkboard. Clarify learners' views and add any others not pointed out. 	1. Give the learners the task to carry out a fieldwork study of a
leading to it. b. know the activities carried out in urban areas. c. explain the main differences between urban and rural areas. d. locate major urban areas of East Africa on a map. e. draw maps to show case studies of urban areas. f. understand factors leading to the development of urban	 Growth of Urban Centres In pairs, let the learners use the Internet or textbook to find the population of some urban areas for at least five years e.g. Kampala, Nairobi in 1960, 1980, 2000, 2010, 2015, 2018, etc. Let the learners discuss the population figures to find out whether the population of urban areas is increasing or falling. Explain that the continuous increase of the number of people living in towns and cities is called urbanization. It is usually followed by the expansion of such towns or urban areas. Let the learners work in groups to find out whether people in towns carry out the same activities as those living in rural areas. Let them draw a table with two columns to distinguish between 	local town or trading centre. The learners find out: a) Where did the people living in the area come from? b) What social and economic activities do the people in the area carry out? c) What factors are responsib
centres. g. use graphs to analyse the development of urban	the activities done in rural and urban areas. • Ask the learners the problems related to rapid growth of urban	le for the developm ent of the town?

Learning Suggested Teaching and Learning Sa		Sample
Outcomes	Activities	Assessment
outcomes		Strategy
areas. h. appreciate the effects and problems of urban growth. i. suggest ways of solving problems of urban growth.	 areas and summarise their responses on the chalkboard. Ask the learners to suggest how these problems can be solved or reduced. Let the learners carry out individual research about any two of these major urban areas of East Africa: Nairobi, Kampala, Dar es 	the problems faced by the town? Let them suggest the best ways of solving problems
j. use lessons learnt from case studies to appreciate the need for planning the development of urban areas.	Case Study: The Development of New York Position and site Use a wall map, chalkboard map and atlas to show the position of New York along the N.E coast of North America and the site of New York. Let the learners use the map to describe the position and site of New York. Through questioning, let the learners suggest why New York became an important port. Explain that the first Europeans settled along the north east coast opposite Europe where they came from. (Ask why it is called New York.) Explain the importance of New York as a port. Let the learners use ideas from the above activities to explain factors which led to the growth of New York. Growth of New York	facing the town. 2. Task the learners to use the knowledge they have learnt in this topic to write a comparison between New York and Kampala; describing similarities and differences.
	 Present statistics of the growth of New York (population figures), and 	



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	 challenge the learners to draw line or bar graphs to represent these. Let the learners analyse the graph drawn and explain the growth of New York. 	
	 Functions of New York In groups, let the learners discuss and list all the things people in Kampala City do. Group ideas feed into a class discussion. List their views on the chalkboard and add others left out, if any. Explain that these are called the functions of the city. Task the learners to use the activities carried out in Kampala to list functions of New York. List these on the chalkboard and add any left out including: Port Trade with overseas and interior International government centre Tourism, etc. 	
	 Problems of New York Use questioning to revise problems of cities in East Africa. Explain that New York has similar problems although some are less severe. Summarise these on the chalkboard. 	
	Solving the Problems of Large Cities • Ask the learners to discuss, using examples of Kampala or other East African city, and New York,	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	 all the above problems and suggest possible ways of solving them. Let the learners carry out individual research about the development of Rotterdam (Netherlands). Individual reports feed into class discussion. 	

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Topic 15: Development of Agriculture in East Africa

Duration: 19 Hours

Competency

The learner understands the importance of agriculture in East Africa, types of agriculture, factors and problems affecting agriculture and their solutions.

Sub-topic 1: Types of Farming in East Africa

Duration: 12 Hours

Learning	Suggested Teaching and Learning	Sample
Outcomes	Activities	Assessment
		Strategy
The learner	Fieldwork on Farming	1. Ask the
should be able to:	• If possible, let the learners visit a	learners to
	farming area, or think of any	imagine that
a. know the	farming area they know, and	they are the
main types of	report on the size of the farms,	Minister for
agriculture in	type of farming, crops grown and	Agriculture
East Africa,	animals kept, methods used, etc.	in an East
including the	The learners ask farmers the main	African
main crops	problems they face in their	country.
grown and	farming.	Ask each of
animals kept.		them to
b. understand	Types of Farming	write a
the	Using the knowledge obtained	policy or list
importance of	through the fieldwork study let	of ideas how
agriculture in	the learners divide farming into	he/she is
both East	types. List these on the	going to
Africa, and	chalkboard: subsistence,	improve
case study	commercial, small scale and large	agriculture
areas.	scale farming.	in that
c. understand	• Let the learners individually	country.
the	explain what they understand by	2. Give an
differences	subsistence and commercial	exercise to
between	farming; small scale and large	compare
subsistence	scale farming.	plantation
and	Task the learners to describe the	farming in

Loar	Learning Suggested Teaching and Learning Sample		
Outcomes		Activities	_
Oute	comes	Activities	Assessment
			Strategy
l l	commercial	type of farming that is most	East Africa
a	agriculture,	common in Uganda.	and large
а	and small	 Challenge the learners to explain 	scale
S	scale and large	how each of the following factors	extensive
S	scale	affects farming in an area they	farming in
a	agriculture.	know: climate, soils, relief, money	the Prairies.
d. d	describe the	(capital), market for produce,	3. Give
r	main factors	transport, labour, technology and	information
	affecting	tools used.	about
l l	agriculture in	 From the examples above, let the 	farmers'
l l	East Africa,	learners decide whether most	activities
	and case study		either on a
	areas.	farming in Uganda and East Africa	farm or in a
-		is: small scale or large scale;	
	suggest the	subsistence or commercial or	farming
	advantages	both.	area. Task
	and		the learners
	disadvantages	Small Holder Farming	to draw a
	of small	 Use a map and/or photograph to 	chart or
	noldings.	help the learners describe and	diagram to
f. u	understand	explain small holding growing	represent
t	the	crops for subsistence and for sale.	the
a	advantages	 Let the learners list the cash crops 	information.
а	and	commonly grown on small	Ask
d	disadvantages	holdings in different parts of	questions
	of extensive	Uganda and the rest of East Africa.	about the
Q	grain farms	 Discuss the advantages of this 	diagram and
_	and	Ö	the area it
	olantations.	kind of farming, including mixed	represents.
_	understand,	cropping.	Topi obciito.
	through case	• Let the learners suggest and	
l l	•	explain the problems caused by	
	,	increasing population in areas of	
_	oroblems of	small holder farming.	
	agriculture	 Discuss methods of conserving 	
	and ways of	the soil including conservation	
l l	mproving	farming.	
	agriculture in	• Task the learners to look up soil	
	East Africa.	conservation in textbooks or on	
h. r	recognise	the Internet and describe how it	
d	different types	applies to East Africa.	
0	of farming	applies to East Alliea.	



Learning		Suggested Teaching and Learning	Sample
Outcomes		Activities	Assessment
			Strategy
i.	from photographs. draw diagrams to show seasonal	 Improvement of Small Holder Farming Using the learners' experience, discuss the problems of small holder farmers. 	
j.	activities on farms. draw maps to show different types of farming in	• Let the learners discuss and suggest how the problems of small holder farmers can be solved and how small holder farming can be improved, including the following:	
k.	East Africa, and case study areas. appreciate the importance of agriculture to the economies of East Africa, and case study	government policies, co-operative societies, better transport and marketing, etc. Let the learners discuss and suggest solutions to the problems of climate change, including increased drought. Explain with the use of photographs the different kinds of	
l.	areas. appreciate, through case studies, the need for government	 Let the learners discuss the advantages of developing industries to process the products of farming. 	
	policies to assist farmers and develop farming.	Large Scale Farming and Plantations • Ask: Have you seen or heard	
m.	appreciate, through case studies, that development of agriculture depends on the level of economic development and	 about large scale farming? Mention areas in East Africa where that type of farming is carried out. Use a map and photographs to show large scale commercial farming or plantation farming and discuss the characteristics of this. Discuss the advantages and disadvantages of plantation farming. 	

Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
technology.	 List the crops usually grown on plantations and suggest reasons for this. Let the learners use the internet or other sources to find a photo of plantation farming in East Africa and describe what they see. 	
	Case Study of Large Scale Commercial Farming on the Canadian Prairies	
	• Explain that one of the main agricultural areas in USA and Canada is the Prairies.	
	 Present a map already drawn or in an Atlas and challenge the learners to locate the Prairies. 	
	• Present climate statistics for any one station on the Prairies. Let the learners draw a graph and use it to describe the climate of the area.	
	Through discussion, summarise the climate of the Prairies.	
	 Let the learners use photograph(s) of wheat farms on the Prairies (large wheat field showing harvester, silo storage and communication line) to find answers to the following: Describe the relief of the area. How big are the fields? How many different crops 	
	are grown? iv) How are the crops being grown?	
	v) How many people do you think are employed? vi) Are the crops probably grown for the farmer's use or	



Learning Outcomes	Suggested Teaching and Learning Activities	Sample Assessment Strategy
	for sale? vii) What do you think the big building is used for? viii) How is the crop transported away? ix) Where will it be taken? Explain and clarify the answers with the use of photographs. On the same map used above, let the learners locate the major wheat export routes. In groups, ask the learners to discuss and suggest the benefits and problems of each route. Task the learners to use what has been learnt above to summarise factors favouring development of	
	 wheat farming on the Prairies. Ask the learners to list the main differences between this farming and most farming in East Africa. 	
	• In groups, let the learners discuss: Could this method be used in most parts of East Africa? Why not? Would this be a good method for East Africa?	
	• Ask the learners: Where has this type of farming been used in East Africa? Who used it and how did they get land?	
	Task the learners to use library or the Internet to carry out group research on problems faced by wheat farmers and their solutions. Let them present reports and share these as a class	

Sub-topic 2: Irrigation Farming in East AfricaDuration: 4 Hours

Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
		Strategy
The learner should be able	Irrigation Schemes and	1. Give learners a
to:	Methods Used	task in which
	Ask the learners from	they suggest
a. know some important	what they learnt about	reasons why we
irrigation schemes in	climate why irrigation	should increase
East Africa and case	is an important	irrigation use in
study areas and the	method of farming.	Uganda and the
types of crops grown.	Ask the learners to	best methods to
b. explain the methods	suggest methods	do this.
used to supply water	which could be used in	
to farmland.)	their home area or an	Give out maps of
c. suggest whether some	area they know to	irrigated lands in
methods of irrigation	irrigate the land.	California and any
used in North America	Using photographs	scheme in East
are suitable for East Africa.	and diagrams, the	Africa. Ask
	learners describe the	questions about the
d. locate major irrigation projects on the maps	methods of irrigation:	two.
of East Africa and case	drip irrigation by	two.
study areas.	fetching water from a water source in	
e. understand the	water source in containers and	
benefits and problems	dripping the water	
of irrigation.	onto the plants;	
f. appreciate that dry	building small dams to	
lands can be very	trap the water in the	
productive if improved	wet season so it can be	
through irrigation.	used in the dry	
appreciate that	seasons; damming	
development of irrigated	streams or rivers to	
agriculture depends on the	trap water; building	
level of economic	water channels to	
development and	distribute the water to	
	the plants.	
technology.	• Let the learners look	
	up types of irrigation	
	in textbooks or on the	
	Internet and explain	



Learning Outcomes	Suggested Teaching and	Sample
Lear Hing Outcomes		_
	Learning Activities	
		Strategy
Learning Outcomes	whether each of these is suitable for East Africa, with reasons. Ask the learners to describe any areas where they know the above types of irrigation are being used. Which types might work in their home area and what might be the difficulties? Let the learners discuss the development of specific irrigation schemes in East Africa: Mubuku, Mwea-Tebere, Ahero pilot scheme Kilombero For each scheme, the learners explain: its location and organisation, facilities and methods used to supply water, major crops grown, factors for the development	Sample Assessment Strategy
	and benefits to people Case Study: Irrigation	
	Farming in the Central Valley, California	
	Present a chalkboard or atlas map and assist the learners to locate	
	California, including the Central Valley.	

Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
	Learning neuvices	Strategy
	7	Strategy
	• Let the learners use	
	the same map to describe the relief and	
	drainage of California.	
	Ask: Where are most rivers flowing from	
	rivers flowing from and where do they	
	end? Which part of	
	California has land	
	that may be suitable	
	for farming? Do the	
	rivers flow through	
	that area?	
	• Present a climate	
	graph for any one	
	station in California.	
	Ask the learners to	
	describe rainfall: total	
	amount and seasons.	
	• Ask the learners: Is	
	there enough rainfall	
	all the year for crops	
	needing heavy	
	rainfall?	
	Provide the learners	
	with a photograph of	
	irrigated fruit/grape	
	farming in Central	
	valley. Or the learners	
	find a photograph of	
	irrigated farming in	
	California on the	
	Internet.	
	Challenge the learners	
	to explain the facilities	
	and methods used to	
	supply water to the	
	farms, including major	
	dams, canals and	



Learning Outcomes	Suggested Teaching and	Sample
	Learning Activities	Assessment
	Dear ming received	Strategy
	aguadusta Lat tham	Strategy
	aqueducts. Let them locate these facilities	
	on the map.	
	-	
	• Ask the learners: Describe the land. Is	
	the farm large — as	
	large as those on the	
	Prairies? What type of	
	crops is being grown?	
	Do they need water?	
	How is water being	
	supplied? Who will	
	pick the fruit? Is much	
	labour needed? Do you	
	think crops are grown	
	for sale or	
	subsistence?	
	• Explain how this is	
	different from the	
	Prairies: smaller farms	
	using less land. But	
	some are becoming	
	larger. Higher yields	
	per hectare — more	
	intensive. Intensive by	
	using irrigation and	
	fertilizers. Even larger	
	farms are intensive.	
	Use more labour.	
	• Let learners discuss	
	whether this kind of	
	farming would be	
	good for East Africa.	
	Advantages: uses less	
	land and more labour,	
	so less unemployment.	
	More intensive i.e.	
	higher yields per	
	hectare. Uses	
	irrigation, becoming	

Learning Outcomes Suggested Teaching and Learning Activities more important in East Africa due to climate change and long droughts. Does not exhaust the soil. Ask: Is this type of farming used in East	ent
more important in East Africa due to climate change and long droughts. Does not exhaust the soil. • Ask: Is this type of	ient
more important in East Africa due to climate change and long droughts. Does not exhaust the soil. • Ask: Is this type of	
East Africa due to climate change and long droughts. Does not exhaust the soil. • Ask: Is this type of	
Africa? In places where farmers are using irrigation or fertilizers to make farming more intensive, e.g. some fruit farming like passion fruit, citrus and some intensive use for other crops. Task learners use the same map and photographs to explain factors for the development of the Central Valley project. Challenge learners to carry out a research about the benefits and problems of irrigation farming in California. Give an assignment for the learners to carry out library or Internet research about land reclamation in the Netherlands. It should include types of farming on the polders.	



Sub-topic 3: Traditional Pastoral Farming and Commercial Livestock Ranching in East Africa

Duration: 3 Hours

Learning Outcomes	Suggested Teaching and	Suggested
	Learning Activities	Assessment
		Strategy
The learner should	Traditional Pastoral Farming	1. Give out a
be able to:	• Use a photograph for the	map
a. know the main	learners to describe traditional	showing
areas of pastoral	pastoral farming and its	areas
farming and	characteristics.	practising
types of animals	Use a chalkboard or textbook	nomadic
kept.	map to guide the learners to	pastoral
b. know the	locate major areas of	farming
characteristics	traditional pastoral farming:	with areas
of traditional	Maasai land, Turkana,	marked
pastoral	Karamoja, and Ankole–Masaka	but not
farming. c. understand the	dry corridor.	named. Let the
c. understand the advantages of	• The learners copy the map.	learners
commercial	• Explain the difference between	name the
pastoral farming	sedentary and nomadic	areas. Let
over traditional	pastoral farming.	them
pastoral	 Discuss the advantages and challenges of traditional 	choose
farming.	0	one area
d. understand the	pastoralists changing to partly commercial farming by sale of	and
problems of	cattle and milk.	explain
pastoral farming	Use a photograph to explain	why
and ways of	small scale commercial	herders
improving it in	dairying and discuss the	move
East Africa.	advantage of this.	from place
e. recognise		to place,
different types	Livestock Ranching	and
of pastoral	• Ask the learners whether they	suggest
farming from	have ever seen a livestock	ways of
photographs.	ranch. Let them describe its	improving
f. draw maps to	main features.	upon
show main	Use maps and photographs to	farming in
areas of	explain large scale commercial	the area.
traditional and	ranching and discuss the	
commercial	characteristics, advantages and	
pastoral	-,	

Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
farming. g. appreciate the importance of the problems of transforming traditional pastoral farming into commercial farming.	disadvantages of this with specific examples. Discuss the problems facing ranches and their solutions. Task learners to do individual research about ranching in the following areas: Ankole – Masaka corridor Maasai land Kongwa	Julius By

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Topic 16: Mining in East Africa

Duration: 6 Hours

Competency

The learner knows the minerals found in East Africa, and understands methods used to extract them, factors favouring mining and its contribution to the East African economy.

Learning	Suggested Teaching and Learning Suggested
Outcomes	Activities Assessment
	Strategy
The learner should be able to: a. know the main minerals found in East Africa and their locations. b. know the uses of the minerals. c. understand	 Ask the learners to name things in the classroom or things they use that are made of minerals. Let learners explain what a mineral is and give examples of minerals in East Africa. Ask the learners whether all minerals are valuable and the difference between a valuable mineral and others. Explain that all rocks are made of minerals but mining is only concerned with minerals which are valuable
why some minerals are mined while others are not. d. draw diagrams to illustrate the stages and methods used to mine the different	 Show the map of the main mining sites in East Africa and the minerals mined. Or look up mining in East Africa on the Internet. Let the learners draw the map in their note books. Ask the learners to make a list from this in four columns under each East African country: name of mineral, mining sites, uses of the mineral, exported or used locally. (Note that this should show only major minerals not every mineral and mining site.) Factors Affecting Mining Explain that not all valuable minerals denoted benefiting a few people in the country. Give figures/statistics on mineral production or exports for all or one country of East Africa. Task the learners to draw a graph to represent these. Ask questions about

	arning tcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy	į.
e.	minerals. recognise activities related to mining from photograp hs.	 are worth mining. In groups, let the learners discuss the factors which influence whether a mineral is mined or not. Group ideas feed into the class discussion. Summarise these on the chalkboard and add any not brought out. 	the g drawn relation mining.	graph in to
f. g.	describe trends in mineral production and trade from statistics and graphs. explain the factors influencing mining. understand the	 Methods of Mining Open cast Use a photograph to draw a diagram of an open cast mine. Let the learners use this to describe the mining. Task learners to convert this into a flow diagram, showing the stages involved. Let the learners suggest the advantages and possible dangers of open cast mining. Let the learners suggest how this may damage the environment. 		
i.	physical and human problems facing mining. appreciate the need to have strict laws to control mining.	 Underground Mining: Adit and Shaft Methods Using a map, let the learners list minerals mined underground in East Africa. Use photographs and draw diagrams of underground mine (Kilembe copper) and challenge learners describe the methods of mining. Let the learners convert these into flow diagrams to show the stages of mining. Let the learners suggest the advantages and possible dangers of underground mining. Task them to suggest how this may damage the environment. Explain why Kilembe underground 		



Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
	mine stopped for a long while and find out if it has re-opened. Extraction of Oil (Drilling) Draw a series of diagrams to show the	
	stages in the extraction of oil, or the learners look this up on the Internet. Let the learners convert this to a flow diagram. Task the learners to suggest possible problems of oil extraction, how this	
	may damage the environment and how it may be prevented. The learners discuss the problems of compensation and ownership of land where the oil is found.	
	 Benefits and Problems of Mining Task learners to suggest why development of mining, including oil extraction, is very expensive. The learners suggest why this is mainly done by overseas companies. Ask the learners whether local people always benefit from mining, and if not, why not. List the benefits on the chalkboard. 	
	 Explain that in many countries, the mines are owned by overseas companies and they pay taxes to the government. Explain that sometimes taxes are kept or diverted to rich people by corruption. 	
	Explain that this sometimes means that ordinary people in the country, including those owning the land where the minerals are found, may get little or no benefit, with all the	

Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
	 money going to overseas companies or to important people in government and other rich people. Task the learners to suggest how this may be prevented. Let the learners research the effects of mining on the environment and problems facing mining in East Africa. 	



Topic 17: Development of Industries in East Africa

Duration: 7 Hours

Competency

The learner understands the benefits of developing manufacturing industries, the types and locations of manufacturing industries and the problems of developing manufacturing industries.

Learning Outcomes	earning Outcomes Suggested Teaching and Learning Activities	
The learner should	Types of Manufacturing	Strategy 1. The
be able to:	Industries	learners
	If possible guide the learners to	choose one
a. know what	visit a manufacturing or	of the
manufacturing	processing industry and	following
industries are.	discover what it produces, raw	and explain
b. know some types	materials used, labour use,	the
of manufacturing	capital and ownership etc.	developme
industries in East	• Ask the learners what they	nt of one of
Africa, case study	understand by manufacturing	this type of
areas and their	industries.	industry in
locations.	• Let them give examples of	East Africa:
c. understand the	manufacturing industries in the	processing
factors affecting	local area and other areas of	industry;
the development	Uganda, and suggest where the	industrial/
and locations of	products of these industries are	producer
manufacturing	sold.	goods
industries in East	- Tible the real herb to explain where	industry;
Africa, and case	manufacturing industries are	consumer
study areas.	located in Uganda and the	goods
d. understand the	reasons for location.	industry.
problems facing	• Explain three types of	Ask them
the development	manufacturing industry: those	to explain the
of manufacturing industries.	making goods for sale in shops	
e. suggest possible	(consumer goods); those making	location; reasons for
solutions to the	goods for sale to other industries	developme
problems above.	(industrial/producer goods);	nt; what is
problems above.	those processing agricultural raw	iit; wiiat is

- f. describe the advantages of developing manufacturing industries.
 - g. explain the problems created by manufacturing industries.
 - h. draw maps to show the main industrial centres of East Africa and case study areas.
- i. draw а flow | diagram to show the processes of industrial development from raw material to markets.
- j. appreciate the importance of developing industries to process raw materials exported from East Africa.
- k. appreciate, through case studies, the need to avoid pollution in developing industries.
- l. appreciate, through case studies, the

- materials or minerals (processing industries).
- Ask the learners to make lists of examples of each type of industry in Uganda or East Africa and their locations.
- Let learners draw a map to show the main industrial centres in East Africa.

Factors for the Development of Manufacturing Industries

- Ask the learners to list things which are needed to develop a manufacturing industry, thinking of specific examples they know.
- Let the learners look up manufacturing industry on the Internet and apply the information to East Africa.
- Explain the factors necessary for the development of industries (raw materials; land; water sources; power; capital; labour; transport; markets; government policy; political stability).
- The learners think of one or two industries in Uganda and write how each of the above factors is important in the development of that industry.

Processing Industries

- Explain that many industries in East Africa are there to process raw materials before they are sold for export.
- Ask learners to give four examples of these: two for agricultural raw materials and two for minerals.
- Challenge learners to suggest the advantages of exporting

- produced; markets; benefits to the area; problems.
- 2. Give a task on policies laws or which can ensure that the developme nt of manufactur ing industries benefit the people in local the area.



importance of power, market, and transport in the development of industries.

- processed or manufactured goods rather than raw materials.
- Explain the idea of adding value to a product.
- Let learners suggest some agricultural products which farmers can add value to.

Industrial/ Producer Goods Industries

- Suggest what kinds of materials are usually imported from overseas when we develop or build things like roads, railways, dams or buildings.
- Let the learners explain why it is good to develop manufacturing industries for industrial/producer goods to be used by other industries.
- Explain using the example of cement in Uganda.

Consumer Goods Industries

- Ask the learners to give examples of goods made in Uganda for sale in the local shops.
- Ask the learners to give examples of goods we buy from overseas which could be made in Uganda.
- The learners explain the advantages of the "Buy Uganda-Build Uganda" policy.

Problems of Developing Manufacturing Industries

 The learners discuss the problems of developing manufacturing industries in East Africa (capital, power supplies, transport, skilled labour, political instability, competition from cheaper imported goods).

- Ask the learners to discuss or debate whether we should continue to import second-hand clothes from overseas. What are the advantages and disadvantages of this?
- Ask the learners what they know about the wages paid to people working in factories: are they adequate for people to live?
- Explain the problem of overseas companies, or local companies, paying very low wages. The learners discuss whether there should be a minimum wage.
- Ask the learners where people who work in manufacturing industries live? Do they live in good conditions? Why do people from rural areas come to work in manufacturing industries?
- Explain the problems of ruralurban drift and the creation of slums.
- Ask the learners if they know a manufacturing industry. Does it produce waste or cause pollution? If so, what kind of waste and where does it go?
- Discuss the problems of waste and pollution from factories. Ask the learners which particular kinds of places are polluted.
- Discuss the dangers of pollution of lakes and wetlands, especially Lake Victoria.

Case Study: Manufacturing industry in the Ruhr

Growth of Industries

 Use an atlas or textbook map to locate Germany, River Rhine and



- its tributaries. Explain that the European region where Germany is found is called the **Rhine lands**. Ask the learners to suggest the reason for this.
- Using the same map above, the learners list other countries of the Rhine lands.
- Show the map of the Ruhr industrial area and coal field, showing rivers, canals, towns and position in relation to Rhine lands.
- Ask the learners to draw the map.
- Explain that this is one of the main industrial areas of Europe. It originally developed heavy industries i.e. industries producing goods for use in other industries, especially iron and steel.
- Ask the learners to use the map to suggest what advantages the Ruhr area had for the development of heavy industries, including iron and steel.
- Discuss the answers and explain the factors leading to the development of heavy industry (coal, rivers and canals for transporting heavy goods, flat land, position in the middle of western Europe giving a big market, capital from Germany which was a rich country, skilled labour as Germany had well developed education, connection with Britain where industrial revolution started)
- Ask the learners: Which goods from Germany are sold in Uganda? (cars like Mercedes, Volkswagen and Audi, electrical

goods and technology)

Explain the history of the Ruhr: Germany was involved in First and Second World Wars leading to the destruction of industries. Formation of European Union (formerly European Economic Community) bringing together European countries, especially Germany, France and Britain, which had always fought each Free trade without customs between countries gave very big market for goods from Ruhr. Later disagreements, with Britain leaving.

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Term 2

Topic 18: Wildlife Conservation and Tourism in East Africa

Duration: 8 Hours

Competency

The learner understands and appreciates the need for conserving wildlife, why tourists come to East Africa, the kind of facilities they want and the benefits we get from tourism and to suggest.

Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
The learner should be able to: a. know what is meant by wildlife and major areas for conserving	 Let the learners study an atlas or wall map, identify and list the areas used for conserving wildlife in East Africa. Ask them to draw the map in their notebooks. Ask the learners what they 	 Task learners to suggest ways to conserve wildlife in East Africa. From what they have learnt, let
wildlife in East Africa. b. know the main tourist attractions of East Africa and locations of the main tourist	 understand by wildlife. Ask the learners to discuss why wildlife in East Africa is rapidly being destroyed. In groups, learners discuss and suggest the consequences of failing to conserve wildlife. 	learners suggest the best ways to attract more tourists to East Africa. 3. Ask learners to think of any one area of Uganda
areas. c. know the meaning of national park, game/wildlife reserves, sanctuaries, historic and prehistoric sites.	 Who is a Tourist and Why do they Come? Ask the learners who a tourist is. Are all people who come to East Africa tourists? What other kinds of people come? Ask the learners where they would like to go if they had the money to become tourists. Do tourists come to East Africa to 	they know well. Let them suggest the tourist attractions it has or could have, and how one could attract tourists, or more tourists, to the

	arning tcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
d.	know where most tourists to East Africa come from.	see the kinds of things you want to see? Why not?Explain that tourists mainly come from industrialised countries	area.
e.	understand the meaning of domestic tourism.	where they live in big polluted cities, so they like to see natural areas and wild life. East African tourists might like to see big cities	
f.	understand the challengers facing wildlife conservation in East Africa.	 because they live in rural areas. Task the learners to use the Internet to find out tourist attractions in East Africa. 	
g.	understand who a tourist is and why tourists come.	 In pairs, ask learners to make a list of the kinds of places tourists come to see in East Africa, and decide which ones are the most important. 	
h.	understand why tourists are particularly interested in natural scenery and wild animals.	Ask learners to suggest other kinds of areas which attract tourists. List the learners' suggestions on the chalkboard and add any not mentioned.	
i.	understand the kind of	Where do Tourists Come from?	
j.	facilities tourists need. understand the challenges facing tourism	• Show statistics of arrivals and origins of tourists in one or all East African countries. Ask the learners to represent the	
k.	in East Africa. recognise tourist attractions	 statistics using simple graphs and analyse them. Let learners use the Internet to find more statistics of arrivals and origins of tourists in East Africa. 	
l.	from photographs. draw a map of the main national parks	 Explain that tourists come from industrialised countries, especially Europe which is traditionally linked to East Africa and is close. Also North America 	



Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
and other tourist areas in East Africa. m. represent statistics on	and increasingly China, Japan and South Korea as those countries are more industrialised and richer.	
wild life and tourism using simple graphs. n. appreciate the need for conserving wildlife.	 Why is East Africa Popular to Tourists? Use a wall map of East Africa and ask the learners to list the main areas tourists go to. Ask them why East Africa is popular to tourists. Explain that East Africa has some of the best game parks and game 	
	reserves, coastlines and coral reefs, mountain scenery and rivers and lakes in Africa. • Ask the learners: What else attracts tourists?	
	 Challenges Facing Tourism In groups, let the learners discuss why sometimes tourists do not come to some parts of East Africa and the dangers which may spoil tourism. Ask why tourists no longer go to some parts of the Kenya coast e.g. north of Malindi (political instability e.g. Al Shabab; and rumours of political trouble). 	
 a. know the major tourist attractions and centres of Switzerland. b. understand the reasons for the 	 Case Study: Tourism in Switzerland Tourist Attractions of Switzerland Use photographs of tourist attractions and activities and ask the learners to describe these and say why they are attractive to tourists. 	Give learners a task to compare tourism in Switzerland with tourism in Uganda.

1	rning comes	Suggested Teaching and Learning Activities	Suggested Assessment
Out	comes	netivities	Strategy
c.	development of tourism. understand how the position of Switzerland in Europe favours tourism. understand the effects of	 Use photographs of tourist facilities and ask the learners why these are important for tourism. Use a map showing Switzerland in Europe and ask learners why Switzerland's position in Europe is favourable for tourism. Use a map to show some of the main tourist areas. Let learners draw the map in their notebooks. Use a climate graph for an area in 	Strategy
	climate on tourism.	the Alps and ask the learners to suggest activities done by tourists	
e.	understand the economic importance of	in each season.The learners suggest why the peace and neutrality of	
f.	tourism. describe some tourist attractions from photographs and suggest why the areas are attractive.	Switzerland has been an important factor in the development of tourism in Switzerland and compare this with East Africa. Challenge the learners to compare these aspects of tourism in Switzerland with those in East Africa.	
g.	statistics of tourism in	Importance of Tourism • Present statistics on the	
h.	Switzerland. draw a map showing some tourist	importance of tourism in Switzerland. Ask the learners to analyse these to show where the tourists come from and the	
i.	centres. appreciate the need to develop good facilities for tourism.	importance of tourism to the economy. The learners compare this with East Africa.	
j.	appreciate the importance of		



Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
peace and		
neutrality in		
attracting		
tourists.		
k. compare		
tourism in		
Switzerland		
with tourism		
in Uganda and		
suggest what		
we can learn		
from it.		

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Topic 19: More on Use of Maps

Duration: 4 Hours

Competency

The learner uses survey maps to find out and describe more about places.

Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
The learner should be able to: a. know the meaning of contours and cross sections. b. understand what a contour is. c. understand how to use contours to describe the relief of an area. d. draw a cross section from	 Using Contours Use questioning to revise isolines. Explain that contours are lines joining places of the same height. Let one group of learners line along one contour and another group lines along a contour above or below the first one to show what a contour is. Ask the learners to line along different contours along a steep slope. Explain that on a steep slope, contours are close together while on a gentle slope, they are widely spaced. Present a sand tray and task the learners to draw contours around a hill, valley, and spur to show the 	1. The learners do exercises on describing the relief of areas on different contour maps. 2. Give the learners exercises to describe physical features and human activities on a survey map and to relate the
a survey map. e. use contours to describe the relief of an area. f. use survey maps to describe relief, drainage, climate, vegetation,	shape of these features on a contour map. Explain how contours are numbered. Show a simple contour map showing steep slope, gentle slope, hill, valley, flat land, etc. Use questioning to help the learners recognise the features. Describing an Area from a Survey	3. Give the learners exercises to draw cross sections, annotate and use them to relate human features to relief and height.



Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
population and human activities in an area. g. use a sketch map to show areas on survey maps. h. appreciate the importance of survey maps in studying geography.	 In groups, task learners to use a survey map to describe relief, drainage, vegetation, settlement, transport and communication and other human activities in the area. Ask learners questions that relate human features to physical features and to each other. Let the learners draw a sketch map to show the relationship between features on a survey map. Challenge the learners to describe economic development of an area using a survey map; problems facing development, prospects and potentials for development Drawing a Cross Section Demonstrate drawing cross sections from a topographic survey map. In pairs, let learners practise drawing cross sections from maps and mark human features along the sections. Explain how cross sections can be used to describe areas and to relate features in an area to relief and height. 	

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Kiguru, J. (1988). *Map Reading and Photographic Interpretation for "O" Level.* Macmillan Kenya. pp. 6-17.

The Rest of Africa

Topic 20: Location and Size of Africa

Duration: 1 Hour

Competency

The learner should knows the size of Africa, its position in the world and compares these with those of other continents.

Learning	Suggested Teaching and Learning	Suggested
Outcomes	Activities	Assessment
		Strategy
The learner should	Location and Size	
be able to:	Use wall and atlas maps of the world and ask the learners to	Task the learners to
a. know the position of Africa in the world.	describe the position of Africa. Ask them compare Africa to other continents and to the equator and tropics.	explain what makes Africa different
 b. know the size of Africa. c. understand that Africa occupies a unique position as the most tropical of continents. d. draw a sketch map showing 	• Present a table showing the areas of continents and task the learners to construct a pie chart to compare the size of Africa with other continents.	from other continents.
the position of Africa.	Individually, the learners draw the map in their books.	

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Topic 21: Climate and Vegetation of Africa

Duration: 6 Hours

Competency

The learnerunderstands the climates of Africa and their distribution; explain the factors influencing the climates, and the effects of these climates on human ways of life.

Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
The learner should be able to: a. know the main climatic regions of Africa. b. draw a map to show these climatic regions.	Factors Affecting the Climates in Africa • Using questioning, revise the seasons and apparent movement of the sun. Ask the learners when the northern and southern hemispheres are tilted towards the sun.	Strategy 1. The learners choose two of the climatic regions of Africa. Compare them, mentioning climate, causes of the climate, and the effect of the climates on the way of
c. understand the reasons for the distribution of the climatic regions of Africa. d. understand the characteristi cs of each type of climate. e. draw climate graphs and	 In groups, let learners discuss and suggest what will happen to the air when the sun is overhead and what this will cause. (Air will rise causing convectional rain.) Explain that this rising air causes winds to blow from north and south to fill up the gap left by the rising air. Let learners study diagrams and map of the winds. These cause north east trades and south east trades. Explain that the place where these winds meet is the Inter-tropical convergence zone (ITCZ): an area of rising air and heavy rain. 	life. 2. Let the learners suggest why people in Africa today are less affected by the climate than they were in the past.

Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
use these to describe the climate of different regions in Africa. f. understand the effects of the climates on the way of life of the people. g. appreciate that the traditional way of life of the people of Africa is strongly influenced by the climates.	 Internet or library books for ITCZ and find out about its position, seasonal movements and effects. Explain the seasonal movements of the ICTZ and how this affects rainfall patterns and distribution in Africa. 	



Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment
	Clarify their views and explain	Strategy
	further about the Mediterranean region i.e. short shrubs, small trees, wheat, maize, olives, and grapes. • Present photographs of each of the climatic regions, or use the Internet to find photographs. Challenge the learners to decide, with reasons, the climatic region shown in each.	

Minns, W. J. (1987). *A Geography of Africa*. Macmillan Publishers Ltd., London. pp. 24-46.

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Term 3

Topic 22: Agriculture in Africa

Duration: 16 hours

Competence

The learner understands the development of arable and pastoral farming in Africa, factors influencing farming, how farming is changing from subsistence to commercial and the advantages associated with that change.

	rning comes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
ml	1	The distance Acid	
The		Traditional Agriculture in Africa	1. Task the
	uld be able	• Use questioning to revise the	learners to
to:		traditional types of agriculture in	draw on the
a.	know the	East Africa: shifting cultivation or	knowledge
	main types	bush fallowing, and the reasons	from the
	of	these are adapted to the climate and	examples
	agriculture	soils.	studied, to
	in Africa:	• Provide the learners with a map of	discuss
	traditional	Africa showing areas of traditional	whether
	and	farming. Let the learners draw the	Uganda or
	modern.	map and suggest why these are also	other countries
b.	know the	the main traditional farming method	of Africa should
	main	in other parts of Africa.	encourage
	subsistence		small holdings
	and		or large scale
	commercial	Change from Subsistence to more	plantation
	crops and	Commercial Methods of Farming	farming.
	main	 In groups, the learners discuss and 	2. Let the
	animals	suggest why many farmers in Africa	learners
	kept.	are changing to more commercial	suggest the
c.	draw a map	methods.	best ways of
	to show the	 Revise using questioning, two main 	improving
	main	methods of commercial farming:	small holder
	pastoral	small holdings and plantation	farming in
	farming	farming.	Africa.
	areas in		3. Task the
	Africa.		learners to



1	rning	Suggested Teaching and Learning	Suggested
Out	tcomes	Activities	Assessment
			Strategy
d.	understand	Small Holding Commercial Farming	discuss the
	the	in Ghana	advantages
	differences	• In groups, let the learners carry out	and
	between	research about a case study of cocoa	disadvantages
	traditional	farming in Ghana. The group findings	of ranching
	pastoral	feed into the class discussion.	over nomadic
	farming and	1	pastoral
	modern	farmers in Ghana started to grow	farming in
	ranching.	cocoa as a cash crop as well as	modern
e.	understand	continuing to grow some subsistence	Africa. Is it
	how	crops.	better to
	agriculture	Challenge the learners to suggest	encourage
	in Africa is	why small holders started to grow a	ranching or
	influenced	cash crop and why they continued to	the
	by the	grow some subsistence crops.	commercializa
	climate.	Provide the learners with the map	tion of
f.	understand	showing the main cocoa growing	nomadic
	the change	areas in Ghana and ask them to draw	farming?
	from	it.	
	subsistence	• Let the learners compare cocoa	
	agriculture	growing in Ghana with coffee	
	to	growing in southern Uganda.	
	commercial	• Use photographs to show cocoa	
	agriculture in Africa.	growing in Ghana and challenge the	
_	understand	learners to study them and explain	
g.		factors making southern Ghana	
	the	suitable for cocoa as a cash crop.	
	advantages and	• Summarise these on the chalkboard	
		and add any points left out.	
	disadvantag es of small	• Explain the characteristics of cocoa	
		growing in Ghana and compare these	
	holdings	with coffee growing in Uganda.	
	and		
h.	plantations. understand	-	
11.	the		
	importance	Plantations Farming in Liberia	
	of	• Present the map showing the main	
	agriculture	areas of plantation farming in Africa.	
	in the	• Let the learners compare this map	
	iii tile	with the map showing climatic	

	rning	Suggested Teaching and Learning	Suggested
Out	comes	Activities	Assessment
i.	economies of African countries. understand the main features of	regions, and explain the relationship between climate and plantation farming. • Explain that Liberia is one of the main plantation farming countries in Africa.	Strategy
j.	nomadic pastoral farming. understand the advantages and	 Let the learners use textbook maps, an atlas, or wall maps to identify the position of Liberia in Africa. Ask the learners look up in the textbooks or on the Internet for rubber plantations in Liberia and draw a map showing the main 	
k.	disadvantag es of commercial ranching. draw maps to show the layout of typical farms in Africa.	 rubber growing areas. Let the learners compare rubber plantations in Liberia with sugar cane or tea plantations in Uganda. Challenge the learners to use their knowledge of agriculture in East Africa to suggest the advantages and disadvantages of rubber plantations in Liberia. 	
l.	describe the types of agriculture	Nomadic Pastoral Farming in Africa (Fulani)	
	in Africa from photograph s.	 Show the map of the main nomadic pastoral areas of Africa with the names of some pastoral groups. Let the learners draw the map in 	
m.	draw the map to show the main pastoral	 their notebooks. Give the learners one or more photographs from the Sahel showing the Fulani pastoralists and their 	
	farming areas of Africa.	herds and a climate graph of the Sahel area. Challenge them to describe the area on the photograph, including the environment and the	Task the learners to suggest whether a large
n.	draw a summary	activities seen. Using the climate graph, explain how the farming is	scale irrigation scheme based on



	rning comes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
	table comparing nomadic pastoral farming with	related to the environment. In groups, let the learners use previous knowledge and own knowledge to discuss the problems of nomads in the modern world.	cooperation between local farmers and government would be suitable for Uganda. They
0.	commercial ranching. appreciate the	Improving Pastoral Farming: Commercial Ranching in Botswana • Let the learners use the map of Africa	should give reasons to support their views.
	importance of agriculture in African economies and the	 to find Botswana and describe its location. Give an outline map of Botswana and ask the learners to search from the textbooks or on the Internet to find out the main ranching areas and plot 	
p.	need to improve agriculture. understand why irrigation is	 these on the map. Give out photographs of a commercial ranch in Botswana. Ask the learners to describe what they see and compare with the nomadic pastoral areas. 	
q.	important in Africa. know some examples of irrigation schemes in Africa.	 Describe the main features of ranching in Botswana and ask the learners to summarise in a table the differences between nomadic pastoral farming and ranching. In groups, let the learners discuss the advantages of commercial ranching 	
r.	understand one example of	in the modern world.	
S.	a large scale irrigation scheme. understand the factors leading to the developmen	 Irrigation Farming in Africa Ask: Why is irrigation important in Africa? Which parts of Africa are most important for irrigation? Show on a map with examples of irrigation schemes in Africa and ask the learners to record their names and countries. 	

Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
t of the Gezira scheme. t. understand how the Gezira scheme works, its benefits and difficulties. u. recognise different methods of irrigation from photograph s. v. describe the climate of Gezira plains from a climate graph. w. draw maps of the Gezira scheme and its location. x. appreciate the advantages of government cooperation	Case Study: The Gezira Irrigation Scheme Provide the learners with a map showing the position of the Gezira scheme in relation to the branches of the Nile and a climate graph of the Gezira area. Challenge the learners to suggest why the Gezira scheme was set up where it is and factors leading to its development. Task the learners to look up Gezira irrigation scheme on the Internet and describe what they find out. Describe, with the use of a diagram, the organisation of the Gezira scheme as cooperation (joint venture) between government and small holders. Ask the learners to suggest the advantages of cooperation between government and local farmers. Describe the problems of the Gezira scheme. In groups, let the learners discuss and suggest some of the problems of the schemes organised by governments and how these can be reduced.	
with small scale farmers.		



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Topic 23: Forest Resources and Forestry in Africa

Duration: 6 Hours

Competency

The learner analyses the distribution, importance and uses of forest resources in Africa and appreciatesthe importance of preserving these resources.

Learning	Suggested Teaching and	Suggested	
Outcomes	Learning Activities	Assessment	
		Strategy	
The learner should	Africa's Forests	1. Let the learners	
be able to:	• Ask the learners, based on	explain the	
	their previous knowledge, to	dangers of	
a. know the	identify where the main	cutting down	
distribution of	forests in Africa are and how	forests and	
the main forest	these are related to the	suggest how	
resources in	climate. What type of timber	this can be	
Africa.	do they produce?	prevented.	
b. understand the	• Let the learners use	2. Task the	
characteristics of	previous knowledge to	learners to	
the forests in	describe the main	imagine they	
Africa.	characteristics of tropical	are the Minister	
c. understand the	rain forests.	for Forestry in	
_	• In groups, guide the learners	Uganda, and	
forests.	to discuss the importance of	then answer the	
d. understand the	forests, including why they	following	
factors favouring	are important in preserving	questions:	
the development	the environment.	Would you ban	
the forestry		all tree cutting?	
industry.	Case Study: The Forest	What would be	
e. form opinions	Industry in Gabon	the difficulties	
about the methods of	• Let the learners use an atlas	of doing this?	
	to find out the location of	What would be	
harvesting trees from the forest.	Gabon and suggest the type	the best policies	
f. understand the	of climate and vegetation	to control the	
development of	found in the country.	cutting down of forests?	
the hardwood	• Use a textbook or	iorests?	
uie iiai uwoou	chalkboard map to show		



Learning Outcomes	Suggested Teaching and Learning Activities	Suggested Assessment Strategy
trade in Gabon. g. identify through photographs the characteristics of forests and activities related to logging in Gabon. h. use simple graphs and charts to present and analyse statistics on the timber industry in Gabon. i. draw the map showing the major forested areas and timber processing areas in Gabon. j. appreciate the dangers of unsustainable forestry in Africa and the dangers	the major forest areas of Gabon, the major rivers, the transport routes and the timber centres named. Let the learners draw the map. • Ask the learners to suggest why a timber industry has developed in Gabon. List the points and add any not listed. • Show photographs of logging and ask the learners to describe what they see and construct a flow diagram to show the production, use and export of timber. • Ask: How do the people of Gabon benefit from the presence and exploitation of forests? • In pairs, challenge the learners to suggest the likely problems faced in exploiting forests in Gabon. • In groups, let the learners	Strategy
of destroying forests.	discuss the dangers of cutting down forests without replacement.	

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Topic 24: Development of Industry in Africa

Duration: 6 Hours

Competency

The learner knows the main types of industries which have been developed, and to analyse the economic importance and difficulties of industrial development in Africa.

Learning	Suggested Teaching and	Suggested
Outcomes	Learning Activities	Assessment
		Strategy
The learner should	Manufacturing Industries	The learners
be able to:	• Revision: Ask the learners	choose one
a. know what a	about three kinds of industries	industrial
manufacturing	they studied in East Africa:	area. They
industry is.	mining industries, agricultural	draw a map to
b. know the location	processing industries and	show its
of some	manufacturing industries.	location;
important	Explain that in this topic they	explain why it
industrial areas	are going to look at	was
in Africa.	manufacturing industries.	developed; the
c. understand the	• Ask: What two kinds of	industries that
factors leading to	manufacturing industries are	are found in
the development	there (consumer goods and	the area; the
of industrial	industrial/producer goods)?	benefits it
areas. d. understand the	• Use the map to show examples	brings to the
d. understand the benefits	of the main manufacturing	country; and
	industrial areas in Africa	the problems it has created.
manufacturing industries can	(Accra-Tema, Ghana; Lower	it has created.
bring to African	Egypt industrial area;	
countries.	Witwatersrand or Rand	
e. understand the	industrial area, South Africa).	
problems of	The learners draw the map.	
developing	Ask the learners to construct a	
manufacturing	table to compare these	
industries in	industrial areas using suitable	
African countries.	headings.	
f. draw a map	The learners explain for each case study area and country	
showing	case study area and country the main industries and the	
5-108	the main muustries and the	



- important industrial areas in Africa.
- g. use statistics, simple graphs and charts to analyse aspects relating to manufacturing industry.
- ownership of industries.
- Let the learners use the Internet or other sources to help them compile the above table.
 - The learners discuss the advantages of African countries establishing manufacturing industries.

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