Geography Syllabus

for

Grade 12

Learning outcomes of Grade 12

1. To develop understanding and acquire knowledge of:

- Research
- How to read topographic map and the difference between qualitative and quantitative distribution maps.
- Map projection and sketch map.
- Location, size, and shape of the Horn of Africa and Ethiopia.
- Geological structure and landform of the horn of Africa and Ethiopia.
- Drainage pattern and lakes of Ethiopia.
- Climate, climatic regions, natural vegetation, wild animals and soils of the Horn of Africa with particular emphasis to Ethiopia.
- Theories, growth, structure, distribution and settlement of population in Ethiopia.
- Impacts of rapid population growth on natural environment, socio economic development and urbanization in Ethiopia.
- Economic growth and major feature of Ethiopian economy.
- Socio-economic development.
- Demonstrate conical, cylindrical and zenital map projections.

2. To develop skills and abilities of:

- Conducting action research.
- Constructing statistical diagrams to represent data on distribution maps.

3. To develop the habits and attitudes of:

- Appreciating the significance of research in tackling social problems and reflecting the distinctive nature of geographic research.
- Showing interest for the implementation of water resource conservation and management policy of Ethiopia.
- Conforming to participate in conservation programs.
- Adhere to the realization of the Ethiopian population policy.
- Generalizing the present features of Ethiopian socio-economic development.
- Appreciating the economic relations of Ethiopia with its neighboring countries
- Showing interest for the realization of Plan for Accelerated Sustained Development to End Poverty (PASDEP).

Unit One: Basic Research Methodologies in Geography (22 periods)

- Acquire basic research skills to enable them conduct action research.
- Understand the significance research and its nature in geography.
- Know different approaches used in geographic research.

Competencies	Main Contents	Suggested activities
 Students will be able to: Explain the concept of research. Show appreciation to the significance of research in tackling social problems. 	1. Basic research methodologies in Geography. 1.1. Definition 1.2 The significance of research (2 periods)	 Ask students what they know about research and assist them to arrive at correct definition and finally organize them in small groups to discuss on what makes research significance and how its significance is realized.
 Use different geographic research approaches in action research. Reflect the distinct nature of geographic research from other disciplines. 	1.3 Approaches of research (qualitative and quantitative) (4 periods) 1.4 The nature of geographic research (4 periods)	• Arrange peer discussion focusing on the difference between qualitative and quantitative research (emphasize on how data are collected, analyzed and interpreted). Then help them to arrive at correct conclusion. At the same time provide a short explanation on the distinctive nature of geographic research.
 Use basic elements of research in their action research. Conduct action research on selected problems. 	 1.5 Basic research methodology in Geography (2 periods) • Basic elements of research 1.6 Conducting action research (10 periods) 	 Give a brief explanation about basic research methodology and let them know basic research methodologies and elements of research. Prepare students to perform action research. Be sure that the students have their own research in which every activity has to be recorded. The activities may start by: Selecting problems to be studied (3 problems might be presented from which one is selected). Then formulate hypothesis and guide students step by step to perform research.

- Students' performance has to be assessed continuously over the whole unit. The assessment will be made by comparing students' performance with the specified level of competencies. Besides, the teacher has to recognize the level of performance of each student and provide assistance accordingly, Thus:
- A student at a minimum requirement level will be able to explain the
 concept of research, show appreciation to the significance of research in
 tackling social problems, use different geographic research approaches
 in action research; reflect the distinct nature of geographic research
 from other disciplines; use basic elements of research in their action
 research and conduct action research on selected problems.
- In addition, a student working above the minimum requirement level and considered as higher achiever should be able to: discuss the findings of various research works, explain how problems of a research are identified, justify why various methods are implemented to conduct a research, evaluate the strength and weakness of research works of their classmates.
- Students working below a minimum requirement level will require extra help if they are to catch up with the rest of the class.
- Students reaching at the minimum requirement level but achieved a little bit higher should be supported so that attain the higher achiever competencies. Students who fulfill the higher achiever competencies also need special support to contribute and achieve more.

Unit Two: Map Use and Map Work (34 periods)

- Recognize, meaning, uses, conventional signs and symbols and distribution of topographic maps.
- Distinguish the properties of globe and map.
- Analyze the meaning, significance, properties and classification of map projection.
- Acquire basic skills to draw sketch in maps.

Competencies	Main Contents	Suggested activities
Students will be able to:Define topographic map.Identify the uses of topographic map.	 2. Map use and Map work 2.1 The study of topographic maps (10 periods) • Meaning and use of 	 Provide students with toposheets of different areas and let them identify both human made and natural features in groups and so that they can list and categorize the features depicted on the maps. In addition students could be assisted to explain the concept and uses of to topographic maps.
 Interpret conventional signs and symbols on topographic map. Realize the difference between qualitative and quantitative distribution maps. Translate different data into distribution map using various diagrammatic methods. Compare and contrast the properties of globe and map. Define map projection. Discuss the significance of map projection. 	 Conventional signs and symbol on topographic map. Distribution maps Types Representing data on maps 2.2 Globe and map (2 periods) Map Projection (12 periods) Meaning & significance of map projection Properties of map projection 	 Assist students to compare and contrast the properties of globe and map. This activity might be completed through group work. Give maps that are produced by different projections such as cylindrical, conical and zenithal, and let students explain the use of each projection and discuss their properties. At the end ask students which projection best suits to the different parts of the world.

Competencies	Main Contents	Suggested activities
• Identify properties of map projection.	Geometrical map projection	
Demonstrate cylindrical, conical and zenithal map projection	-Cylindrical - Conical - Zenithal	
 Define what sketch map is. Explain the purpose of drawing sketch map. Discuss the guidelines for making good sketch maps. Draw a sketch map of a given area. 	 2.4 Drawing sketch map (10 periods) The meaning of sketch map Some guidelines for making good sketch maps Producing sketch map 	• Ask students what they know about sketch maps and what makes them different from conventional maps and then assist them to know the procedures included in making sketch maps. Ask them to justify why and when it is important. In addition give them group works to produce sketch maps of their localities/schools.

- Students' performance has to be assessed continuously over the whole unit. The assessment will be made by comparing students' performance with the specified level of competencies. Besides, the teacher has to recognize the level of performance of each student and provide assistance accordingly, Thus:
- A student at a minimum requirement level will be able to define topographic map; identify the uses of topographic map; realize the difference between qualitative and quantitative distribution maps; translate different data into distribution map using various diagrammatic methods; compare and contrast the properties of globe and map; define map projection; discuss the significance of map projection; identify properties of map projection; define what sketch map is, explain the purpose of drawing sketch map; discuss the guidelines for making good sketch maps and draw a sketch map of a given area.
- In addition, a student working above the minimum requirement level and considered as higher achiever should be able to: compare and contrast the definition of topographic map with other definition of map, justify why and when they use qualitative and quantitative distribution map, explain the appropriate map projection for different part of the earth, discuss why and how map projections differ in shape and content, compare and contrast sketch map with conventional map.
- Students working below a minimum requirement level will require extra help if they are to catch up with the rest of the class.
- Students reaching at the minimum requirement level but achieved a little bit higher should be supported so that attain the higher achiever competencies students who fulfill the higher achiever competencies also need special support to contribute and achieve more.

Unit Three: Physical Geography of Ethiopia and the Horn (48 periods)

- Describe the location, size and countries of the Horn of Africa.
- Recognize geological history structure and relief of the Horn of Africa.
- Discuss drainage, systems of Ethiopia and the Horn characteristics and their significant.
- Appreciate water resource conservation and management policy.
- Identify factors influencing the spatial and seasonal distribution of elements of climate in Ethiopia.
- Realize natural vegetation and wild animals of Ethiopia.
- Describe soil types problems and conservation in Ethiopia.

Competencies	Main Contents	Suggested Activities
Students will be able to:	3. Physical Geography of Ethiopia and the horn.	
 Indicate the location of Horn of Africa. Compare the size of countries of the horn. Demonstrate the relative and absolute location of Ethiopia. Discuss the shape of Ethiopia. 	3.1. Location, size and countries of the Horn of Africa. (2 periods) 3.2. Location, size and shape of Ethiopia (1 period) 3.3. Geological structure and relief of the Horn of Africa.	 Provide students with a map of Africa, so that they can identify the countries of the Horn. Give them a table consisting the sizes of each country of the Horn, so that they can justify the advantages of having large sizes. Ask students to distinguish the shape of Ethiopia, at the same time they can identify different types of shape and explain the significance of having a compact shape like that of Ethiopia. Ask students what they know about the concept of geology and remind the geological structure of Africa.
		 Provide them with the relief map of the Horn of Africa, so that they can describe how major land forms are formed and located in the places where they are.
 Explain geological structure of the Horn of Africa. Discuss major events of the Horn of Africa. Describe major land forms of the Horn of Africa. Explain major landforms of Ethiopia 	 3.3.1. Geological history and major events of the horn of Africa (8 periods) Geological history Major geological events Geological structure 3.3.2. Land forms of Ethiopia and the Horn (8 periods) Landforms of the Horn 	 Give them a summary of the major geological events that took place in Ethiopia according to their chronological orders. By using the drainage map of Ethiopia students would justify why and how Ethiopian rivers possessed the existing patterns and general characteristics. They are also asked to indicate the lakes and describe their major characteristics. In addition, they gather information on the contribution of Ethiopian rivers and lakes. Provide the policy of water resource conservation and management and let them discuss how to implement it in their community and what should be their contribution in the implementation process.

Competencies	Main Contents	Suggested Activities
Discuss the general characteristics of Ethiopian rivers and drainage patterns.	of Africa — Landforms of the Ethiopia	
Classify lakes of Ethiopian as highland and river valley lakes.	3.3.3. Drainage systems and water resource of Ethiopia	
 Show appreciation for the significance of rivers and lakes of Ethiopia. 	(11 periods)General characteristic of Ethiopian rivers	
Show interest for the implementation of	 Drainage pattern Lakes	
water resource conservation and	Significance of rivers and lakes of Ethiopia	
management policy.	Water resource conservation and management policy in Ethiopia	
Discuss the factors influencing the spatial distribution of the elements of climate in Ethiopia and the horn	3.4. Climate of Ethiopia and the Horn (10 periods) 3.4.1 Factors influencing the spatial distribution of the elements of climate in Ethiopia and the	 Ask students to remind the concept of weather and climate and then let them list the major elements of weather and climate. Provide the climate map of Africa and students discuss how varied factors influencing the spatial and temporal distribution of temperature and rainfall in Ethiopia and the Horn. Finally provide the map that shows the rainfall regimes of Ethiopia and arrange the class in different groups to closely examine the rainfall regimes of Ethiopia.
Describe the spatial and temporal variation of temperature in Ethiopia and the Horn	horn(2 periods) 3.4.2 Spatial and temporal variation of temperature in Ethiopia and the	
 Explain the spatial & temporal variation of rainfall in Ethiopia and the Horn. 	Horn (3 periods) 3.4.3 Spatial and temporal variation	

	Competencies	Main Contents	Suggested Activities
•	Compare rainfall regions in Ethiopia.	of rainfall in Ethiopia & the Horn (3 periods)	
•	Relate types of natural vegetations to climatic regions. Identify wild animals of Ethiopia. Discuss human intervention on forest land. Show interest to participate in the conservation of natural vegetation and wild animals.	 3.4.4 Rainfall regions in Ethiopia and the Horn(2 periods) 3.5 Natural vegetation and wild animals of Ethiopia (8 periods) Types of natural vegetation Wild animals of Ethiopia Human intervention on forest Conservation of natural vegetation and wild animals 	• Invite students to infer the types of natural vegetation found in different parts of the country and let them associate the wild animals with their respective habitat. At the end, give them maps that show natural vegetation and wild animals distribution. Then ask them to cross check whether they were right or wrong. In addition, let students discuss the magnitude of human intervention on forest land and wild animals. At the same time they can discuss the methods of conserving these key resources.
•	Relate formation of soils of Ethiopia with geological events of the past Distinguish major soil types in Ethiopia. Realize soils problems and its conservation in Ethiopia.	 3.6 Soils of Ethiopia (8 periods) Formation of soils in Ethiopia Types of soils in Ethiopia Soils problem and conservation in Ethiopia 	 Ask students to describe what soil is and how it is formed. Provide the soil map of Ethiopia and arrange group discussion on the major soil types of Ethiopia. Let them identify soil problems in Ethiopia and methods of conserving these key resources.

- Students' performance has to be assessed continuously over the whole unit. The assessment will be made by comparing students' performance with the specified level of competencies. Besides, the teacher has to recognize the level of performance of each student and provide assistance accordingly, Thus
- A student at a minimum requirement level will be able to indicate the location of Horn of Africa; compare the size of countries of the Horn; demonstrate the relative and absolute location as well as the shape of Ethiopia; explain geological structure and major events of the Horn of Africa; describe major landforms of Ethiopia and the Horn; discuss the general characteristics of Ethiopian rivers and drainage patterns; classify the Ethiopian lakes as high land and rift valley; show appreciation for the significance of rivers and lakes of Ethiopia; show interest for the implementation of water resource conservation and management policy; discuss the factors influencing the spatial distribution of the elements of climate in Ethiopia; describe the spatial and temporal variation of temperature in Ethiopia; explain the spatial and temporal variation of rainfall in Ethiopia; compare the rainfall regions in Ethiopia; relate types of natural vegetation to climatic regions; discuss human intervention on forest land; show interest to
- Participate in the conservation of natural vegetation and wild animals; identify wild animals of Ethiopia; distinguish major soil types in Ethiopia and realize soils problems and its conservation in Ethiopia.
- In addition, a student working above the minimum requirement level and considered as higher achiever should be able to:- discuss the opportunities and the challenges Ethiopia faced due to its location in the Horn of Africa, explain how land forms affect the drainage patterns and climate of Ethiopia, describe the impact of Ethiopian rivers and lakes on the livelihood and culture of the people, analyze the purpose of each elements incorporated in the water resource conservation and management policy of Ethiopia, justify why wild animals fiercely attack human being in varied places, compare and contrast the strength and weakness of each soil conservation methods.
- Students working below a minimum requirement level will require extra help if they are to catch up with the rest of the class.
- Students reaching at the minimum requirement level but achieved a little bit higher should be supported so that attain the higher achiever competencies. Students who fulfill the higher achiever competencies also need special support to contribute and achieve more.

Unit Four: Population of Ethiopia and the Horn (22 periods)

- Discuss population theories, trends, growth, structure, spatial distribution and factors affecting population distribution in Ethiopia.
- Explain settlement patterns, determinants of population changes, impacts of rapid population growth and urbanization in Ethiopia.

Competencies	Main Contents	Suggested Activities
 Students will be able to: Analyze population theories of Malthusian and Anti-Malthusian. Explain trends of population growth and structure in Ethiopia. 	 4. Population of Ethiopia and the Horn 4.1. Population theories Malthusian Anti-Malthusian (4 periods) 4.2 Trends of population growth and structure in Ethiopia (2 periods) 	 Provide students Malthusian and anti-Malthusian population theories and let them debate whether Malthus was right or wrong. Assign students a group discussion on the trends and structure of Ethiopian population. In addition they can discuss fertility and mortality patterns as determinants of population change and impacts of rapid population growth. Provide population map of Ethiopia and assist them to identify the densely and sparsely populated areas of Ethiopia and let them relate to the factors affecting the spatial distribution of population in the Ethiopian context.
 Discuss the spatial distribution of population in Ethiopia. State factors affecting population distribution in Ethiopia 	 4.3 The spatial distribution of population in Ethiopia (2 periods) 4.4 Factors affecting population distribution in Ethiopia (2 periods) 	
 Realize settlement patterns of Ethiopian population. Compare fertility and mortality rate from a given data. 	4.5 Settlement patterns of Ethiopian population (4 periods)	• Ask students what they know about the concept settlement and arrange a group discussion to reason out why the settlement patterns differ from region to region.
Analyze impacts of rapid population growth on natural environment and socio-economic	4.6 Determinants of population change in Ethiopia (2 periods)	• Ask students to mention the major variables of population change, and make them discuss and compare to show how these variables act as population dynamics. Give them data showing fertility and mortality rates of a given place and assist them to interpret the data given.

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Competencies	Main Contents	Suggested Activities
developmentdevelopme nt of Ethiopia. Adhere to the realization of population policy of Ethiopia. Compare rate of urbanization in Ethiopia in regional level.	4.7 Impacts of rapid population growth in Ethiopia (3 periods) 4.8 Population policy of Ethiopia (1 period) 4.9 urbanization in Ethiopia (2 periods)	 Take two places in Ethiopia, one with dense population and the other with sparse population. Then ask students to justify the place where land degradation is very serious and relate this to more developed areas having high population pressure with less environmental degradation. The teacher is expected to facilitate class discussion and give a brief summary on the topic. Give a brief description on the population policy of Ethiopia and ask them to express their role in the realization of the policy. Ask students to explain the concept of urbanization and assign them to prepare a short essay on the origin and development of urbanization Ethiopia and present it to the class. They can discuss on the rate of urbanization and its regional variation in Ethiopia.

- Students' performance has to be assessed continuously over the whole unit. The assessment will be made by comparing students' performance with the specified level of competencies. Besides, the teacher has to recognize the level of performance of each student and provide assistance accordingly, Thus
- A student at a minimum requirement level will be able to analyze Malthusian and anti-Malthusian population theories; explain trends of population of growth and structure in Ethiopia and compare fertility and mortality rate from given data; discuss the spatial distribution of population in Ethiopia and state factors affecting population distribution in Ethiopia. Realize settlement patterns of Ethiopian population and analyze impacts of rapid population growth on natural environment and socio-economic development of Ethiopia. Adhere to the realization of
- population policy of Ethiopia and compare rate of urbanization in Ethiopia in regional level.
- In addition, a student working above the minimum requirement level and considered as higher achiever should be able to: evaluate why countries select Malthusian or anti-Malthusian population theories, compare and contrast population pyramids of different levels of development, compute population growth rates, and justify Ethiopia's rate of urbanization and development.
- Students working below a minimum requirement level will require extra help if they are to catch up with the rest of the class.
- Students reaching at the minimum requirement level but achieved a little bit higher should be supported so that attain the higher achiever competencies students who fulfill the higher achiever competencies also need special support to contribute and achieve more.

Unit Five: Economic Growth and Development Trend in Ethiopia (10 periods)

- Realize economic growth, development trend, major features and present socio-economic development and its indicators.
- Analyze the challenges and prospects of socio-economic development for Ethiopia.
- Appreciate the economic relation with its neighboring countries and other continents.
- Recognize plan for accelerated and sustainable development to end poverty (PASDEP) as guiding document for development of Ethiopia.

Competencies	Main Contents	Suggested Activities
Students will be able to:	5. Economic growth and development trend in Ethiopia (2 periods)	
• Discuss economic growth and development trend in Ethiopia.	5.1. Major features of Ethiopian economy (1 period)	• Ask students the difference between economic growth and economic development. Then organize the class in group to discuss the trend of Ethiopian economy. In addition, let each group present the major features of Ethiopian economy and
Characterize major features of Ethiopia economy.	5.3 present features of Ethiopian socio-economic development (2 periods)	explain how the economic sectors are linked. At the end, encourage them to discuss what the present features of Ethiopian socio-economic development looks like. They are also expected to show indicators of development in Ethiopian context. Finally give a brief summary of all points raised in the discussion.
Reflect links among different economic sectors of Ethiopia.	Indicators of development	context. Thiany give a orier summary of an points faised in the discussion.
• Generalize the present features of Ethiopian socio-economic development.		
Analyze indicators of development in Ethiopia context.	5.4 Challenges and prospects of socio-economic development for Ethiopia (2 periods)	
Predict the challenges and prospects of socio- economic development for Ethiopia.	 5.5 Economic relation (1period) With neighboring countries With other continents 	Invite students to predict challenges and prospects of socio-economic development of Ethiopia and let them reason out for their prediction. The discussion should be backed in pros and cons and arrive at concrete conclusions

Competencies	Main Contents	Suggested Activities
Show appreciation for economic relations of Ethiopia with its neighboring countries and other continents.	5.6 PASDEP (2 periods) (Plan for Accelerated and Sustained Development to End Poverty)	Give an assignment for students to work on Ethiopian economic relations with its neighboring countries and other continents. They also identify the advantages of having economic relations.
Show interest for the realization of PASDEP		Provide a brief information on the objectives and the need of the plan for accelerated and sustained development to end poverty (PASDEP)

- Students' performance has to be assessed continuously over the whole unit. The assessment will be made by comparing students' performance with the specified level of competencies. Besides, the teacher has to recognize the level of performance of each student and provide assistance accordingly, Thus
- A student at a minimum requirement level will be able to discuss economic growth and development trend in Ethiopia; characterize major features of Ethiopian economy; reflect links among different economic sectors of Ethiopia; generalize the present features of Ethiopian socio-economic development; analyze indicators of development in Ethiopian context; predict the challenges and prospects of socio-economic development for Ethiopia; show appreciation for economic relations of Ethiopia with its neighboring countries and other continents and show interest for the realization of PASDEP.
- In addition, a student working above the minimum requirement level and considered as higher achiever should be able to:- evaluate major features of Ethiopian economy, select two economic sectors and show their fundamental linkages, evaluate the present features of Ethiopian socio-economic development, state indicators of development in the Ethiopian context, and justify how economic relations could help sustainable development.
 - Students working below a minimum requirement level will require extra help if they are to catch up with the rest of the class.
 - Students reaching at the minimum requirement level but achieved a little bit higher should be supported so that attain the higher achiever competencies students who fulfill the higher achiever competencies also need in special support to contribute and achieve more.