**GEOGRAPHY SCHEMES OF WORK**

**FORM THREE 2016**

**TERM I**

**REFERENCES:**

1. Secondary Geography KLB BK 3
2. Certificate Geography BK 3
3. Macmillan BK 3

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| **WK** | **LSN** | **TOPIC/S-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 1 |  | **REPORTING AND REVISION OF LAST TERM’S EXAMINATIONS** |  |
| 2 | 1 | Statistical MethodsCompound/cumulative bar graphs | **By the end of the lesson the learner should be able to:-**Describe how data is presented using a compound bar graph | Drawing of graphsDiscussionTaking notes | GraphsTextbooks | KLB BK 3 Pg 4Cert Geog BK 3Pg 1-3Macmillan BK 3Pg 1-2 |  |
|  | 2 | Advantages and disadvantages of using comparative bar graphs | **By the end of the lesson the learner should be able to:-**Explain the advantages and disadvantages of using cumulative bar graphs to present data | Drawing of graphsDiscussionTaking notes | Graphs | KLB BK 4 Pg 2-3Cert Geog BK 3Pg 3-4Macmillan BK 3Pg 1-2 |  |
|  | 3 | Proportional circles | **By the end of the lesson the learner should be able to:-**Describe how data is presented using proportional circles | Drawing of graphsDiscussionObservation of diagrams | ChartsStatistical abstracts | KLB BK 3 Pg 2-3Cert Geog BK 3Pg 4-7Macmillan BK 3Pg  |  |
|  | 4 | Advantages and disadvantages of using proportional circles to present data | **By the end of the lesson the learner should be able to:-**State the advantages and disadvantages of using proportional circles to present data | Drawing of graphsDiscussionObservation of diagrams | Charts  | KLB BK 3 Pg 2-5Cert Geog BK 3Pg 7-8Macmillan BK 3Pg 3 |  |
| 3 | 1 | Pie charts/Divided circles | **By the end of the lesson the learner should be able to:-**Describe how data is presented using pie charts | Drawing of graphsDiscussionObservation of diagrams | Graphs Charts  | KLB BK 3 Pg 2-3Cert Geog BK 3Pg 8-14Macmillan BK 3 |  |
|  | 2 | Advantages and disadvantages of using pie charts | **By the end of the lesson the learner should be able to:-**Discuss the advantages and disadvantages of using pie charts in presenting data | Drawing of graphsDiscussionObservation of diagrams | Graphs Charts  | KLB BK 3 Pg 3-4Cert Geog BK 3Pg 14-15Macmillan BK 3Pg  |  |
|  | 3 | Map WorkInterpretation of physical features on topographical maps | **By the end of the lesson the learner should be able to:-**Interpret landforms and vegetation on topographical maps | Identification of various vegetations on topographical mapsDiscussion, Observation topographical maps | Topographical maps | KLB BK 3 Pg 14Cert Geog BK 3Pg 16-26Macmillan BK 3Pg 7-8 |  |
|  | 4 | DrainageEconomic activities and settlement | **By the end of the lesson the learner should be able to:-**Interpret drainage, economic activities and settlement on topographical maps | Drawing of diagrams showing drainage patternDiscussionIdentifying economic activities, Identifying settlement patterns | Topographical mapsCharts  | KLB BK 3 Pg 14-19Cert Geog BK 3Pg 26-34Macmillan BK 3Pg 9 |  |
| 4 | 1 | Map reduction and enlargement | **By the end of the lesson the learner should be able to:-**Reduce a map area Enlarge a map area | Drawing of a diagramDiscussion | Topographical mapsTextbooks  | KLB BK 3 Pg 22Cert Geog BK 3Pg 34-41 |  |
|  | 2 | Drawing a cross section | **By the end of the lesson the learner should be able to:-**Draw a cross section between any two given points | Drawing a cross sectionDiscussion | Topographical mapsGraph papersGeometrical instruments | KLB BK 3 Pg 22-26Cert Geog BK 3Pg 41-44 |  |
|  | 3 | Calculation and interpretation of a vertical exaggeration and gradient | **By the end of the lesson the learner should be able to:-**Calculate and interpret vertical exaggeration and gradient on maps | DiscussionTaking notesCalculation | Topographical maps | KLB BK 3 Pg 26-28Cert Geog BK 3Pg 45-47Macmillan BK 3Pg 17 |  |
|  | 4 | Inter-visibility | **By the end of the lesson the learner should be able to:-**Determine and interpret the inter-visibility of areas covered by the map | DiscussionCalculation | Topographical maps | KLB BK 3 Pg 28Cert Geog BK 3Pg 50-54Macmillan BK 3Pg 18 |  |
| 5 | 1 | External Land Forming ProcessesWeatheringFactors influencing weatheringTypes and processes of weatheringMechanical weathering | **By the end of the lesson the learner should be able to:-**Discuss the factors influencing weathering Identify the various types and processes of mechanical weathering | DiscussionTaking notes | Charts | KLB BK 3 Pg 30-32Cert Geog BK 3Pg 56-58Macmillan BK 3Pg 21 |  |
|  | 2 | Processes Involved in Mechanical WeatheringBlock disintegrationExploitationFreezing and thawing | **By the end of the lesson the learner should be able to:-**Discuss block disintegration, exfoliation and thawing and freezing | DiscussionExpositionDrawing of diagrams | ChartsModels | KLB BK 3 Pg 30-34Cert Geog BK 3Pg 56 |  |
|  | 3 | Crystal growthSlaking | **By the end of the lesson the learner should be able to:-**Explain the processes of crystal growth and slaking | DiscussionTaking notesDrawing diagrams | Simple modelsCharts | KLB BK 3 Pg 32-33Cert Geog BK 3Pg 56-57 |  |
|  | 4 | Pressure ReleaseChemical weatheringSolutionCarbonation | **By the end of the lesson the learner should be able to:-**Discuss pressure release under mechanical weatheringDiscuss solution and carbonation process under chemical weathering | DiscussionTaking notes | Charts  | KLB BK 3 Pg 34Cert Geog BK 3Pg 57-60 |  |
| 6 | 1 | HydrolysisOxidationHydration | **By the end of the lesson the learner should be able to:-**Describe the hydrolysis, oxidation and hydration under chemical processes | DiscussionTaking notes | Charts | KLB BK 3 Pg 35Cert Geog BK 3Pg 60Macmillan BK 3Pg 24 |  |
|  | 2 | Biological WeatheringPlant activityAnimal activityHuman activity | **By the end of the lesson the learner should be able to:-**Explain the processes of biological weathering | DiscussionTaking notes | Charts  | KLB BK 3 Pg 36-37Cert Geog BK 3Pg 61-62Macmillan BK 3Pg 25 |  |
|  | 3 | Significance of weathering | **By the end of the lesson the learner should be able to:-**Explain the significance of weathering | DiscussionTaking notes | Charts  | KLB BK 3 Pg 36-37Cert Geog BK 3Pg 61-62Macmillan BK 3Pg 25 |  |
|  | 4 | Mass WastingFactors affecting mass wasting | **By the end of the lesson the learner should be able to:-**Identify and explain the factors that influence mass wasting | DiscussionTaking notes | Charts Models | KLB BK 3 Pg 39-40Cert Geog BK 3Pg 65Macmillan BK 3Pg 27 |  |
| 7 | 1 | Types and Processes of Mass WastingSlow mass wastingSoil creepScree creepSolifluction | **By the end of the lesson the learner should be able to:-**Explain the various forms of rapid mass wasting | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 40Cert Geog BK 3Pg 65-68Macmillan BK 3Pg 29 |  |
|  | 2 | Rapid Mass WastingEarth flowsMud flowsAvalanchesLand slides | **By the end of the lesson the learner should be able to:-**Explain the various forms of rapid mass wasting | DiscussionTaking notesDrawing diagrams | Charts  | KLB BK 3 Pg 43-45Cert Geog BK 3Pg 71-72Macmillan BK 3Pg 33 |  |
|  | 3 | Effects of Mass Wasting on Physical and Human Environment | **By the end of the lesson the learner should be able to:-**Discuss the effects of mass wasting | DiscussionTaking notes | Charts  | KLB BK 3 Pg 43-45Cert Geog BK 3Pg 71-72Macmillan BK 3Pg 33 |  |
|  | 4 | The Hydrological CycleDefinitionProcesses of hydrological cycle | **By the end of the lesson the learner should be able to:-**Describe how the various processes involved in the input process | DiscussionTaking notes | Charts models | KLB BK 3 Pg 45Cert Geog BK 3Pg 71-72Macmillan BK 3Pg 33 |  |
| 8 | 1 | Output Processes EvaporationTranspiration | **By the end of the lesson the learner should be able to:-**Describe the output processes in the hydrological cycle | DiscussionTaking notesDrawing diagrams | Charts  | KLB BK 3 Pg 46Cert Geog BK 3Pg 73Macmillan BK 3Pg 35 |  |
|  | 2 | Internal TransfersInterceptionRun-offInfiltration | **By the end of the lesson the learner should be able to:-**Describe the output process in the hydrological cycle | DiscussionTaking notes | Charts  | KLB BK 3 Pg 43-45Cert Geog BK 3Pg 73 |  |
|  | 3 | Significance of hydrological cycle | **By the end of the lesson the learner should be able to:-**Discuss the importance of the hydrological cycle | DiscussionTaking notes | Charts  | KLB BK 3 Pg 49-50Cert Geog BK 3Pg 73Macmillan BK 3Pg 36 |  |
|  | 4 | Action of RiversDefinition of terms used in rivers | **By the end of the lesson the learner should be able to:-**Define terms, rivers, catchment area, source mouth, permanent and seasonal rivers, tributaries | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 52-53Cert Geog BK 3Pg 76Macmillan BK 3Pg  |  |
| 9 | 1 | Work of a RiverRiver erosion Processes of river erosionHydraulicCorrosionSolutionAttrition | **By the end of the lesson the learner should be able to:-**Identify and explain the processes of river erosion | DiscussionTaking notes | Charts models | KLB BK 3 Pg 51-52Cert Geog BK 3Pg 75-76Macmillan BK 3Pg 37 |  |
|  | 2 | Types of Rivers ErosionHead ward erosionVertical erosionLateral erosion | **By the end of the lesson the learner should be able to:-**Explain the three types of river erosion | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 52-53Cert Geog BK 3Pg 76Macmillan BK 3Pg  |  |
|  | 3 | Factors affecting the rate of river erosion | **By the end of the lesson the learner should be able to:-**Explain the factors that influence the rate of erosion | DiscussionTaking notes | Charts Simple Models  | KLB BK 3 Pg 51-52Cert Geog BK 3Pg 77-78Macmillan BK 3Pg 37 |  |
|  | 4 | River TransportationProcesses involved in river transportationSolution, Suspension,Traction, Saltation | **By the end of the lesson the learner should be able to:-**Explain the four processes involved in river transportation | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 53-54Cert Geog BK 3Pg 84Macmillan BK 3Pg 38 |  |
| 10 | 1 | River depositionDevelopment of river profilesYouthful stage | **By the end of the lesson the learner should be able to:-**Describe how the river deposits its loadIdentify the youthful stage of a river | DiscussionTaking notesDrawing diagrams | Charts Simple Models  | KLB BK 3 Pg 54Cert Geog BK 3Pg 84 |  |
|  | 2 | Features formed in the youthful stage of a riverGorgesPotholes | **By the end of the lesson the learner should be able to:-**Describe how gorges and potholes are formed at the youthful stage of a river | DiscussionDrawing diagrams | Charts Simple Models  | KLB BK 3 Pg 55Cert Geog BK 3Pg 79-84Macmillan BK 3 |  |
|  | 3 | V-shaped valleyWaterfalls and rapids | **By the end of the lesson the learner should be able to:-**Explain how the V-shaped valleys and waterfalls and rapids are formed | DiscussionQuestion and answerDrawing of diagrams | Charts Simple Models  | KLB BK 3 Pg 55-60Cert Geog BK 3Pg 81-82Macmillan BK 3Pg 41 |  |
|  | 4 | Mature StageFeatures formed Wider valleysGentler gradient | **By the end of the lesson the learner should be able to:-**Explain the formation of wider valleys and gentler gradient | DiscussionTaking notesDrawing of diagrams | Charts Models  | KLB BK 3 Pg 60-65Cert Geog BK 3Pg 84-92Macmillan BK 3Pg 39 |  |
| 11 | 1 | Concave BanksInterlocking Spurs | **By the end of the lesson the learner should be able to:-**Explain hoe the concave and interlocking spurs are formed | DiscussionTaking notesDrawing of diagrams | Charts Models  | KLB BK 3 Pg 60-65Cert Geog BK 3Pg 84-92Macmillan BK 3Pg 39 |  |
|  | 2 | Old StageFeatures formed at the old stageAlluvial fansMeandersOxbow lakes | **By the end of the lesson the learner should be able to:-**Explain formation of alluvial fans, meanders and oxbow lakes | DiscussionTaking notesDrawing of diagrams | Charts Models  | KLB BK 3 Pg 60-65Cert Geog BK 3Pg 84-90Macmillan BK 3Pg 40 |  |
|  | 3 | Natural LeveesFlood plainsDeltas | **By the end of the lesson the learner should be able to:-**Explain the formation of natural levees, flood plains and deltas | DiscussionTaking notesDrawing of diagrams | Charts Models  | KLB BK 3 Pg 60-65Cert Geog BK 3Pg 84-90Macmillan BK 3Pg 40 |  |
|  | 4 | Types of DeltasArcuate deltaBird’s foot deltaEsturine deltaInland delta | **By the end of the lesson the learner should be able to:-**Explain the formation of various types of deltas | DiscussionTaking notesDrawing of diagrams | Charts Models  | KLB BK 3 Pg Cert Geog BK 3Pg 91-92Macmillan BK 3Pg  |  |
| 12 | 1 | River Capture | **By the end of the lesson the learner should be able to:-**Explain the formation of river capture | DiscussionTaking notes | Charts  | KLB BK 3 Pg 72-77Cert Geog BK 3Pg 101-102 |  |
|  | 2 | River Rejuvenation | **By the end of the lesson the learner should be able to:-**Discuss on the occurrence of river rejuvenation | DiscussionTaking notes | Charts  | KLB BK 3 Pg 66-67Cert Geog BK 3Pg 93-97Macmillan BK 3Pg 51 |  |
|  | 3 | Drainage Patterns | **By the end of the lesson the learner should be able to:-**Discuss on the various drainage patterns in a river | DiscussionTaking notesDrawing of diagrams | Charts  | KLB BK 3 Pg 68-72Cert Geog BK 3Pg 99-101Macmillan BK 3Pg 53 |  |
|  | 4 | Significance of Rivers and the Resultant Features | **By the end of the lesson the learner should be able to:-**Discuss the importance of rivers and the resultant features | DiscussionTaking notes | Charts  | KLB BK 3 Pg 72-77Cert Geog BK 3Pg 101-103Macmillan BK 3Pg 58 |  |
| 13 | 1-4 | Revision of the techniques of answering questions in Map Work | **By the end of the lesson the learner should be able to:-**Answer questions related to map work | DiscussionTaking notes | Map extracts  | KLB BK 3 Pg 1-3Cert Geog BK 3Pg 1-3 |  |
|  |  | **SCHOOL CLOSES FOR APRIL HOLIDAY** |  |

**GEOGRAPHY SCHEMES OF WORK**

**FORM THREE 2016**

**TERM II**

**REFERENCES:**

1. Secondary Geography KLB BK 3
2. Certificate Geography BK 3
3. Macmillan BK 3

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| **WK** | **LSN** | **TOPIC/S-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 1 |  | **REPORTING OF STUDENTS, CATS AND REVISION OF LAST TERM’S EXAMINATIONS** |  |
| 2 | 1 | LakesDefinitionFormation and classification of lakesLakes due to tectonic movement | **By the end of the lesson the learner should be able to:-**Define a lakeExplain how lakes are formed from tectonic movement | DiscussionTaking notesDrawing of diagrams | Charts Wall maps | KLB BK 3 Pg 78-80Cert Geog BK 3Pg 177Macmillan BK 3Pg 61 |  |
|  | 2 | Lakes due to:Volcanic activityGlaciationWave depositionWind erosion | **By the end of the lesson the learner should be able to:-**Discuss how lakes are formed due to volcanic activity, glaciation, wave deposition and wind erosion | DiscussionTaking notes | Charts Simple models | KLB BK 3 Pg 80-84Cert Geog BK 3Pg 163Macmillan BK 3Pg  |  |
|  | 3 | Lakes formed by:HumanMeteoritesDamming of land slides | **By the end of the lesson the learner should be able to:-**Explain the formation of lakes by humans, meteorites, damming of landslides | DiscussionTaking notes | Charts chalkboard | KLB BK 3 Pg 84-85Cert Geog BK 3Pg 182-183Macmillan BK 3Pg  |  |
|  | 4-5 | Significance of lakes to human activities | **By the end of the lesson the learner should be able to:-**Discuss the significance of lakes to human activities | DiscussionTaking notes | Charts  | KLB BK 3 Pg 85-88Cert Geog BK 3Pg 182-184Macmillan BK 3Pg 65 |  |
| 3 | 1&2 | Oceans, Seas and their CoastsDefinitionNature of Ocean Waters | **By the end of the lesson the learner should be able to:-**Define oceans, seas and coastsDescribe the natured of ocean waters | DiscussionTaking notes | Charts AtlasWall maps | KLB BK 3 Pg 95-97Cert Geog BK 3Pg 104-106Macmillan BK 3Pg 70 |  |
|  | 3 | Characteristics and distribution of ocean currents | **By the end of the lesson the learner should be able to:-**Identify the major ocean currents and their characteristics | DiscussionTaking notesDrawing diagrams | Charts AtlasWall maps | KLB BK3Pg 98-101Cert Geog BK 3Pg 108-110Macmillan BK 3Pg 71 |  |
|  | 4 | TidesTypes of tidesCauses of tides | **By the end of the lesson the learner should be able to:-**Identify the four types of tidesIdentify the causes of tides  | DiscussionTaking notesDrawing diagrams | Charts Wall maps | KLB BK 3 Pg 98-101Cert Geog BK 3Pg 110-113Macmillan BK 3Pg 73 |  |

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|  | 5 | WavesTypes of wavesWave actionWave erosionProcesses of wave erosion | **By the end of the lesson the learner should be able to:-**Define what is a waveIdentify the two types of wavesIdentify wave erosion processes | DiscussionTaking notes | Charts Wall maps | KLB BK 3 Pg 103-104Cert Geog BK 3Pg 110-113Macmillan BK 3Pg 73 |  |
| 4 | 1 | Wave erosion and the resultant featuresWave erosion processesCorrasionHydraulicAttritionSolution | **By the end of the lesson the learner should be able to:-**Explain wave erosion processes | DiscussionTaking notesDrawing diagrams | Charts Wall maps | KLB BK 3 Pg 104Cert Geog BK 3Pg 113-114Macmillan BK 3Pg 76 |  |
|  | 2 | Resultant features from wave erosionCliffsWave cut plat formsBlow holes | **By the end of the lesson the learner should be able to:-**Describe the formation of cliffs, wave cuts platforms and blow holes | DiscussionTaking notesDrawing diagrams | Charts Wall mapsSimple models | KLB BK 3 Pg 104-107Cert Geog BK 3Pg 114-115Macmillan BK 3 Pg 78 |  |
|  | 3 | CavesArches stacks and stumps | **By the end of the lesson the learner should be able to:-**Explain the formation of caves, arches stucks and stumps | DiscussionTaking notesDrawing diagrams | Charts Wall maps | KLB BK 3 Pg 105-107Cert Geog BK 3Pg 115-116Macmillan BK 3Pg 78 |  |
|  | 4 | Wave transportationLong shore driftWave deposition and resultant features | **By the end of the lesson the learner should be able to:-**Discuss wave transportation | DiscussionTaking notesDrawing diagrams | Charts Simple models | KLB BK 3 Pg 107-108Cert Geog BK 3Pg 116-118Macmillan BK 3 Pg 79 |  |
|  | 5 | Resultant features of wave depositionBeachesSpitsMud flatsTomboloBar, dune beltsSalt marshesCuspates | **By the end of the lesson the learner should be able to:-**Explain the various features resulting from wave deposition | DiscussionTaking notes | Charts Exposition | KLB BK 3 Pg 108-111Cert Geog BK 3Pg 118-122Macmillan BK 3 Pg 80 |  |
| 5 | 1 | Types of coastsSubmerged coastsSubmerged upland coastsFactors influencing the evolution of coasts | **By the end of the lesson the learner should be able to:-**Identify the types of coasts | DiscussionTaking notes | Charts  | KLB BK 3 Pg 110-112Cert Geog BK 3Pg 122-126Macmillan BK 3 Pg 82 |  |
|  | 2 | Submerged lowlands coastsEmerged coasts | **By the end of the lesson the learner should be able to:-**Discuss the features of submerged lowland coasts and emerged coasts | DiscussionTaking notes | Charts  | KLB BK 3 Pg 110-112Cert Geog BK 3Pg 122-126Macmillan BK 3 Pg 82 |  |
|  | 3 | Coral coastsCoral reefsFringing reefs | **By the end of the lesson the learner should be able to:-**Identify and discuss the various types of coral reefs i.e. coral reefs and fringing reefs | DiscussionTaking notesDrawing diagrams | Charts Simple models | KLB BK 3 Pg 114-115Cert Geog BK 3Pg 130-132Macmillan BK 3 Pg 84 |  |
|  | 4 | Barrier reefsAtolls  | **By the end of the lesson the learner should be able to:-**Discuss the barrier reefs and atolls as the types of coral reefs | DiscussionTaking notesDrawing diagrams | Charts Simple models | KLB BK 3 Pg 115-116Cert Geog BK 3Pg 132-133Macmillan BK 3 Pg 84 |  |
|  | 5 | Significance of oceans, coasts and coastal features | **By the end of the lesson the learner should be able to:-**Explain the importance of oceans, coasts and their coastal features | DiscussionTaking notes | Charts Atlas  | KLB BK 3 Pg 117-119Cert Geog BK 3Pg 134-138Macmillan BK 3 Pg 87 |  |
| 6 | 1 | Action of Wind and Water in Arid Areas | **By the end of the lesson the learner should be able to:-**Define what is a desertClassify deserts | DiscussionTaking notes | Charts Atlas  | KLB BK 3 Pg 120-121Cert Geog BK 3Pg 137-138Macmillan BK 3 Pg 89 |  |
|  | 2 | Action of wind in arid areasWind erosionProcesses of wind erosionAbrasionAttritionDeflationFeatures resulting from wind erosionRock pedestal | **By the end of the lesson the learner should be able to:-**Describe wind erosion processesDescribe how a rock pedestal is formed | DiscussionTaking notesDrawing diagrams | ExpositionModels  | KLB BK 3 Pg 121-122Cert Geog BK 3Pg 138-140Macmillan BK 3 Pg 89 |  |
|  | 3 | Ventifalts Mushroom blockZeugensYardangs | **By the end of the lesson the learner should be able to:-**Describe the formation of ventifalts, mushroom block, zeugens, yardangs | DiscussionTaking notesDrawing diagrams*© Education Plus Agencies* | Charts Models  | KLB BK 3 Pg 121-122Cert Geog BK 3Pg 139-141Macmillan BK 3 Pg 91 |  |
|  | 4 | Deflation hollowsWind transportationWind deposition | **By the end of the lesson the learner should be able to:-**Explain the formation of deflation hollowsDiscuss wind transportationOutline factors that influence wind deposition | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 125Cert Geog BK 3Pg 143-144Macmillan BK 3 Pg 92 |  |
|  | 5 | Deposition featuresDunesDraasLoess | **By the end of the lesson the learner should be able to:-**Discuss the features formed from wind deposition | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 126Cert Geog BK 3Pg 144-145Macmillan BK 3 Pg 141-147 |  |
| 7 | 1 | Action of water in arid areas and resultant features | **By the end of the lesson the learner should be able to:-**Describe the formation of inselbergs, mesas and buttes and wadis | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 127-128Cert Geog BK 3Pg 147-149 |  |
|  | 2 | GorgesWadisInland drainage basins and related featuresPlayas | **By the end of the lesson the learner should be able to:-**Explain the formation of gorges, wadis, inland drainage basins and related features and playas | DiscussionTaking notesDrawing diagrams | Charts Models Atlas | KLB BK 3 Pg 129-130Cert Geog BK 3Pg 150-152Macmillan BK 3 Pg 95 |  |
|  | 3 | Significance of features resulting from water and wind in arid areas | **By the end of the lesson the learner should be able to:-**Explain significance of features of wind and water action in arid areas | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 130Cert Geog BK 3Pg 152 |  |
|  | 4 | Action of water in limestone areasUnderground water | **By the end of the lesson the learner should be able to:-**Discuss the process of underground waterIdentify and explain the factors influencing the underground water | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 132-136Cert Geog BK 3Pg 154-156Macmillan BK 3 Pg 96 |  |
|  | 5 | Springs, wells and boreholesArtesian basinsSignificance of underground water | **By the end of the lesson the learner should be able to:-**Discuss the formation of springs, wells, boreholes and artesian basinsIdentify the significance of underground water | DiscussionTaking notesDrawing diagrams | Charts Expositions  | KLB BK 3 Pg 137-138Cert Geog BK 3Pg 154-156Macmillan BK 3 Pg 96 |  |
| 8 | 1 | Karst sceneryFactors influencing development of Karst ScenerySurface features in limestone areasGrikes and clintsSwallow holesDry valleysDolinesUvalasPolge Gorges  | **By the end of the lesson the learner should be able to:-**Discuss the factors that influence the development of Karst sceneryIdentify and discuss the surface features in limestone areas | DiscussionTaking notesDrawing diagrams | Charts Expositions Models  | KLB BK 3 Pg 139-148Cert Geog BK 3Pg 162-163Macmillan BK 3 Pg 97-100 |  |
|  | 2 | Underground features in limestone areasPhreatic cavesUnderground caves and cavernsStalactile and stalagmitesLimestone pillars | **By the end of the lesson the learner should be able to:-**Discuss the underground features in the Karst scenery | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 139-140Cert Geog BK 3Pg 162-163Macmillan BK 3 Pg 97-100 |  |
|  | 3 | Significance of resultant features in the Karst scenery | **By the end of the lesson the learner should be able to:-**Outline the significance of features formed in the Karst scenery | DiscussionTaking notes | Charts  | KLB BK 3 Pg 140Cert Geog BK 3Pg 163Macmillan BK 3 Pg 100 |  |
|  | 4 | GlaciationGlacial erosion processesPluckingAbrasion | **By the end of the lesson the learner should be able to:-**Identify and describe processes of glacial erosion | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 142-145Cert Geog BK 3Pg 164-166Macmillan BK 3 Pg 100-101 |  |
|  | 5 | Glacial TransportationMorainesTypes of moraines | **By the end of the lesson the learner should be able to:-**Explain the process in which glacier transport its materials | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 145-146Cert Geog BK 3Pg 167 |  |
| 9 | 1 | Resultant features of glaciation in highland areasCorriePyramidal peak | **By the end of the lesson the learner should be able to:-**Explain the formation of a pyramidal peak and a corrie  | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 146-147Cert Geog BK 3Pg 168-169Macmillan BK 3 Pg 104 |  |
|  | 2 | Hanging valleys Roche moutoneeCrag and tail | **By the end of the lesson the learner should be able to:-**Explain the formation of hanging valleys, roche moutonee and crag and tail | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 147-148Cert Geog BK 3Pg 169Macmillan BK 3 Pg 105 |  |
|  | 3 | FjordsGlacial troughsRock basins | **By the end of the lesson the learner should be able to:-**Discuss the formation of fjords, glacial troughs and rock basins | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 146-148Cert Geog BK 3Pg 168-169Macmillan BK 3 Pg 106 |  |
|  | 4 | Glaciation in low landsErraticsTillBoulder trainTerminal moraine | **By the end of the lesson the learner should be able to:-**Describe glaciation in the lowlands and explain the formation of erratics, till and boulder train | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 149-150Cert Geog BK 3Pg 173-174Macmillan BK 3  |  |
|  | 5 | Drumlins, Kames and EskersOutwash plainsCrag and tailSignificance of glaciation | **By the end of the lesson the learner should be able to:-**Describe the formation of drumlins, kames and eskers, outwash plains, crag and tailState the significance of glaciation | DiscussionTaking notesDrawing diagrams | Charts Models  | KLB BK 3 Pg 156-162Cert Geog BK 3Pg 174-175Macmillan BK 3 Pg  |  |
| 10 | 1 | SoilDefinitionSoil forming processes | **By the end of the lesson the learner should be able to:-**Define what is soilIdentify the various soil forming process | DiscussionTaking notes | Charts Models  | KLB BK 3 Pg 155-158Cert Geog BK 3Pg 193-194Macmillan BK 3  |  |
|  | 2 | Soil formation throughWeatheringDecompositionLeaching | **By the end of the lesson the learner should be able to:-**Explain the various ways in which soil is formed | DiscussionTaking notesDrawing diagrams | Charts Models  | KLBBK3Pg158-160Cert Geog BK 3Pg 195-196MacmillanBK3Pg196 |  |
|  | 3 | Factors influencing soil formation | **By the end of the lesson the learner should be able to:-**Explain the various factors that influence soil formation | DiscussionTaking notes | Charts Samples  | KLBBK3Pg160-162Cert Geog BK 3Pg 198-199MacmillanBK3Pg112 |  |
|  | 4 | Soil propertiesTextureStructure | **By the end of the lesson the learner should be able to:-**Discuss on soil texture and soil structure | DiscussionTaking notes | Charts Samples  | KLB BK 3 Pg 162-163Cert Geog BK 3Pg 198 |  |
|  | 5 | Soil colourWater and airPorosityTemperatureLime content | **By the end of the lesson the learner should be able to:-**Discuss soil colour, water and air, porosity, temperature and lime content | DiscussionTaking notes | Charts Samples  | KLB BK 3 Pg 163-164Cert Geog BK 3Pg 201-202Macmillan BK 3 Pg 112 |  |
| 11 | 1 | Soil profile | **By the end of the lesson the learner should be able to:-**Identify and discuss the four soil profile layers and discuss factors influencing soil profile | DiscussionTaking notesDrawing diagrams on soil profile | Charts Models  | KLB BK 3 Pg 162Cert Geog BK 3Pg 204-207Macmillan BK 3 Pg 115 |  |
|  | 2 | Soil catenaSoil degradation | **By the end of the lesson the learner should be able to:-**Discuss on soil catena and soil degradation | DiscussionTaking notesDrawing diagrams | Charts  | KLB BK 3 Pg 163-164Cert Geog BK 3Pg 208-209 |  |
|  | 3 | Soil erosion | **By the end of the lesson the learner should be able to:-**State the causes of soil erosionDiscuss types of soil erosion | DiscussionTaking notes | Charts  | KLB BK 3 Pg 167-168Cert Geog BK 3Pg 209-210Macmillan BK 3 Pg 118 |  |
|  | 4 | Soil classification | **By the end of the lesson the learner should be able to:-**List the various soil classificationsDescribe the three classification of soil | DiscussionTaking notes | Charts Soil sample | KLB BK 3 Pg 168-171Cert Geog BK 3Pg 212-213 |  |
|  | 5 | Significance of soils | **By the end of the lesson the learner should be able to:-**Explain various significance of soils | DiscussionTaking notes | Charts  | KLB BK 3 Pg 179Cert Geog BK 3Pg 210 |  |
| 12 | 1 | Soil conservation and management | **By the end of the lesson the learner should be able to:-**Differentiate between soil conservation and managementIdentify and explain various ways of conserving and managing soil | DiscussionTaking notes | Charts  | KLB BK 3 Pg 215-216 |  |
|  | 2-5 | **REVISION** |  |

**GEOGRAPHY SCHEMES OF WORK**

**FORM THREE 2016**

**TERM III**

**REFERENCES:**

1. Secondary Geography KLB BK 3
2. Certificate Geography BK 3

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| **WK** | **LSN** | **TOPIC/S-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 1 |  | **SCHOOL OPENS** |  |
| 2 | 1 | AgricultureFactors influencing agriculturePhysical factors | **By the end of the lesson the learner should be able to:-**Explain the physical factors that influence agriculture | DiscussionNotes taking | AtlasWall maps | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 227-228 |  |
|  | 2 | Human factorsTypes of agricultureArable farmingSubsistence  | **By the end of the lesson the learner should be able to:-**Explain factors that influence agriculture (human)Explain various forms of subsistence arable farming | DiscussionNotes taking | AtlasWall maps | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 229-231 |  |
|  | 3 | Commercial arable farming | **By the end of the lesson the learner should be able to:-**Explain various forms of commercial arable farming | DiscussionNotes taking | AtlasPhotographs  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 231-234 |  |
|  | 4 | Livestock farming | **By the end of the lesson the learner should be able to:-**Discuss the various forms of livestock farming | DiscussionNotes taking | Atlas | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 235-238 |  |
|  | 5 | Crop farmingTea farming in KenyaRequirements for tea cultivation | **By the end of the lesson the learner should be able to:-**Explain the physical and human factors that are required for tea cultivation | DiscussionNotes taking | Wall map of Kenya  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 242-243 |  |
| 3 | 1 | CultivationHarvestingProcessing | **By the end of the lesson the learner should be able to:-**Discuss tea under cultivation, harvesting and processing | DiscussionNotes taking | AtlasTea cutting  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 243-245 |  |
|  | 2 | Distribution of tea farming areas in KenyaMarketingImportance of tea to Kenya’s economyProblems facing tea farming | **By the end of the lesson the learner should be able to:-**State the areas where tea is grown in KenyaGive the marketing bodies of teaExplain the significance of tea to Kenya’s economyState problems that face tea farming | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 246-248 |  |
|  | 3 | Sugarcane farming in KenyaConditions that favour sugar cane growing | **By the end of the lesson the learner should be able to:-**Discuss the factors that favour sugar cane growing | DiscussionNotes taking | Atlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 249-250 |  |
|  | 4 | Cultivation of sugar caneHarvestingProcessing | **By the end of the lesson the learner should be able to:-**Discuss sugar cane under; cultivation, harvesting and processing | DiscussionNotes taking | Cane cutting | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 250-251 |  |
|  | 5 | Distribution of areas farming sugar caneMarketing of sugarImportance of sugar to Kenya’s economy | **By the end of the lesson the learner should be able to:-**State the areas in Kenya where sugar cane is grownExplain how marketing of sugar is doneGive the significance of sugar to Kenya’s economy | DiscussionNotes taking | Oral expositionAtlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 251-252 |  |
| 4 | 1 | Problems facing sugar cane farming | **By the end of the lesson the learner should be able to:-**Discuss the problems that face sugar cane farming | DiscussionNotes taking | Oral exposition | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 253 |  |
|  | 2 | Maize farming in Kenya Physical and human requirements for growing maize | **By the end of the lesson the learner should be able to:-**Explain the requirements for growing of maize | DiscussionNotes taking | Oral expositionAtlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 254-255 |  |
|  | 3 | Maize cultivationHarvestingProcessing | **By the end of the lesson the learner should be able to:-**Discuss maize under; cultivation, harvesting and processing | DiscussionNotes taking | Oral exposition | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 255-256 |  |
|  | 4 | Distribution of maize farming areasMarketing of maizeImportance to Kenya’s economy | **By the end of the lesson the learner should be able to:-**Give areas in Kenya where maize is grownGive the marketing bodies of maizeGive the significance of maize to Kenya’s economy | DiscussionNotes taking | Map of Kenya  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 258-259 |  |
|  | 5 | Problems facing maize farming | **By the end of the lesson the learner should be able to:-**Explain the problems facing maize farming | DiscussionNotes taking | Oral exposition | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 260 |  |
| 5 | 1 | Cocoa farming in GhanaPhysical and human conditions that favour the growth of cocoa | **By the end of the lesson the learner should be able to:-**Explain the factors that favour cocoa growing in Ghana | DiscussionNotes takingDrawing the map of Ghana | AtlasMap | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 261-262 |  |
|  | 2 | Cultivation of cocoaHarvestingDistribution of cocoa farming in Ghana | **By the end of the lesson the learner should be able to:-**Discuss cocoa growing under cultivation, harvesting and distribution | DiscussionNotes taking | Map of Ghana  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 262-264 |  |
|  | 3 | Problems facing cocoa growing in Ghana  | **By the end of the lesson the learner should be able to:-**Discuss the problems facing cocoa growing in Ghana | DiscussionNotes taking | Oral exposition | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 264-265 |  |
|  | 4 | Oil palm in NigeriaConditions favouring oil palm farming | **By the end of the lesson the learner should be able to:-**Discuss the conditions that favour oil palm farming in Nigeria | DiscussionNotes taking | AtlasChart showing Nigeria map | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 265-266 |  |
|  | 5 | CultivationHarvestingProcessing  | **By the end of the lesson the learner should be able to:-**Discuss oil palm farming under cultivation, harvesting and processing | DiscussionNotes taking | Atlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 2666-267 |  |
| 6 | 1 | Distribution of oil palm farming areas in NigeriaMarketing of palm oilImportance of palm oil to Nigeria’s economy | **By the end of the lesson the learner should be able to:-**State the areas in Nigeria where oil palm is grownState the significance of oil palm farming in Nigeria  | DiscussionNotes taking | A map of Nigeria | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 268-269 |  |
|  | 2 | Problems facing oil palm farming | **By the end of the lesson the learner should be able to:-**Discuss the problems facing oil palm in Nigeria | DiscussionNotes taking | Oral exposition | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 270 |  |
|  | 3 | Coffee farming in Kenya and BrazilDistribution of coffee growing areas in Kenya and BrazilFactors favouring coffee growing in Kenya and Brazil  | **By the end of the lesson the learner should be able to:-**State the areas where coffee is grown in Kenya and BrazilExplain the factors that favour coffee growing in Kenya and Brazil | DiscussionNotes takingFinding Brazil in the atlas | Atlas | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 271-272 |  |
|  | 4 | Methods of coffee productionMarketing of coffee | **By the end of the lesson the learner should be able to:-**Discuss the method of coffee production in Kenya and BrazilMarketing of coffee in Kenya and Brazil | DiscussionNotes taking | Oral exposition | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 273-274 |  |
|  | 5 | Significance of coffee to economies of Kenya and BrazilProblems facing coffee farming in Kenya and Brazil | **By the end of the lesson the learner should be able to:-**Explain the role of coffee to the economies of Kenya and BrazilExplain the problems facing coffee farming in Kenya and Brazil | DiscussionNotes taking | Oral exposition | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 275-277 |  |
| 7 | 1 | Wheat farming in Kenya and CanadaDistribution of wheat growing areas Factors favouring wheat growing | **By the end of the lesson the learner should be able to:-**Identify the areas where wheat is grown in Kenya and CanadaState and explain the physical and human factors that favour wheat growing in Kenya and Canada  | DiscussionNotes taking | Map of Kenya and CanadaAtlas | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 278-280 |  |
|  | 2 | Wheat production methodsMarketing of wheatRole of wheat in economies of Kenya and Canada | **By the end of the lesson the learner should be able to:-**Explain method of production of wheatMarketing of wheat and role of wheat in economies of Kenya and Canada | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 281-282 |  |
|  | 3 | Problems facing wheat farming | **By the end of the lesson the learner should be able to:-**Explain the problems facing wheat farming | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 282-283 |  |
|  | 4 | Horticultural farming in Kenya and the Netherlands Characteristics of horticultural farmingFactors favouring horticulture | **By the end of the lesson the learner should be able to:-**State the characteristics of horticultureExplain the factors favouring horticulture in Kenya and the Netherlands | DiscussionNotes taking | Atlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 284-285 |  |
|  | 5 | CultivationMarketing of horticultural products | **By the end of the lesson the learner should be able to:-**Discuss horticulture in cultivation and marketing | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 285-286 |  |
| 8 | 1 | Role of horticulture in the economies of Kenya and NetherlandsProblems facing horticulture farming | **By the end of the lesson the learner should be able to:-**Explain the role of horticulture in the economies of Kenya and NetherlandsExplain the problems facing horticulture farming | DiscussionNotes taking | Oral exposition Atlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 288-289 |  |
|  | 2 | Livestock farming Pastoralism in KenyaCharacteristicsFactors influencing pastoral farming in Kenya | **By the end of the lesson the learner should be able to:-**Give the characteristics of pastoralismExplain the factors that influence pastoral farming in Kenya | DiscussionNotes taking | Map of Kenya  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 290-291 |  |
|  | 3 | Products of pastoral farmingProblems facing pastoralism in Kenya | **By the end of the lesson the learner should be able to:-**Give the products of pastoral farmingExplain the problems facing pastoralism in Kenya | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 292-293 |  |
|  | 4 | Measures taken to improve pastoral farming in Kenya | **By the end of the lesson the learner should be able to:-**Explain the measures taken to improve pastoral farming in Kenya | DiscussionNotes taking | Map of Kenya  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 294 |  |
|  | 5 | Dairy farming CharacteristicsFactors influencing dairy farming in Kenya and Denmark | **By the end of the lesson the learner should be able to:-**State the characteristics of dairy farmingExplain the factors that influence dairy farming in Kenya and Denmark | DiscussionNotes taking | Atlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 295-297 |  |
| 9 | 1 | Distribution of dairy farmingDairy productsMarketing of dairy products | **By the end of the lesson the learner should be able to:-**Identify areas where dairy farming is carried out in Kenya and DenmarkIdentify the dairy productsGive the marketing bodies of dairy products | DiscussionNotes taking | atlas | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 297-300 |  |
|  | 2 | Role of dairy farming in the economies of Kenya and Denmark | **By the end of the lesson the learner should be able to:-**Explain the significance of dairy farming in Kenya and Denmark | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 301-302 |  |
|  | 3 | Problems facing dairy farming in Kenya and Denmark | **By the end of the lesson the learner should be able to:-**Explain the problems facing dairy farming in Kenya and Denmark | DiscussionNotes taking | Map of Kenya  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 302-304 |  |
|  | 4 | Problems facing dairy farming in Kenya and Denmark and their possible solutions | **By the end of the lesson the learner should be able to:-**Explain the problems facing dairy farming in Kenya and Denmark and their possible solutions | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 305 |  |
|  | 5 | Beef farmingCharacteristicsFactors favouring beef farming in Kenya and Argentina  | **By the end of the lesson the learner should be able to:-**State the characteristics of beef farmingExplain the factors that favour beef farming in Kenya and Argentina | DiscussionNotes taking | Atlas | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 305-307 |  |
| 10 | 1 | Distribution of beef farming in Kenya and ArgentinaMarketing of beef products | **By the end of the lesson the learner should be able to:-**Identify the areas in Kenya and Argentina where beef farming is carried out | DiscussionNotes taking | Atlas  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 308-309 |  |
|  | 2 | Role of beef farming in economies of Kenya and Argentina | **By the end of the lesson the learner should be able to:-**Explain the role of dairy farming to the economies of Kenya and Argentina | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 309-310 |  |
|  | 3 | Problems facing beef farming in Kenya and Argentina  | **By the end of the lesson the learner should be able to:-**Explain the problems facing beef farming in Kenya and Argentina | DiscussionNotes taking | Oral exposition  | Sec. Geo KLB BK 3Pg Certificate Geo BK 3Pg 311 |  |
|  | 4 | Statistical MethodsAge-sex pyramid(Absolute value method) | **By the end of the lesson the learner should be able to:-**Draw the age-sex pyramid using absolute value method | DiscussionDrawing the age-sex pyramid | Statistical abstracts | Sec. Geo KLB BK 4Pg Certificate Geo BK 4Pg 1-2 |  |
|  | 5 | Age-sex pyramid using percentage value method | **By the end of the lesson the learner should be able to:-**Draw the age-sex pyramid using the percentage value method and give the advantage and disadvantages of age-sex pyramid | DiscussionDrawing the age-sex pyramid | Statistical abstracts | Sec. Geo KLB BK 4Pg Certificate Geo BK 4Pg 4-5 |  |
| 11 | 1 | Dot maps | **By the end of the lesson the learner should be able to:-**Draw a dot mapGive the advantages and disadvantages of dot maps | DiscussionDrawing | Abstracts of dot maps | Sec. Geo KLB BK 4Pg Certificate Geo BK 4Pg 6-8 |  |
|  | 2 | Choropleth maps | **By the end of the lesson the learner should be able to:-**Draw choropleth mapsState the advantages and disadvantages of choropleth maps | DiscussionDrawing choropleth maps | Statistical abstracts | Sec. Geo KLB BK 4Pg Certificate Geo BK 4Pg 8-10 |  |
|  | 3-5 | **END YEAR EXAMINATIONS** |  |
| 12 |  | **END YEAR EXAMINATIONS** |  |