**GEOGRAPHY SCHEMES OF WORK**

**FORM ONE 2016**

**TERM I**

**REFERENCES:**

1. KLB Secondary Geography
2. Certificate Geography Students Book
3. Teacher’s Book
4. Gateway Secondary
5. Comprehensive Secondary Geography
6. Focus on Geography

Compiled by Schools Net Kenya (SNK) in partnership with Jospa Publishers | P.O. Box 3029 – 00200 Nairobi |

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 1-4 |  | REPORTING |  |
| 5 | 1 | Introduction to Geography | IntroductionDefinition of geography and environmentOrigin of termsGeographyEnvironmentComponents of the environment | By the end of the lesson, the learner should be able toDefine terms geography and environmentExplain the origin of Geography and environmentDescribe the components of environment | Defining the terms Geography and environmentExplaining the origin of geography and environmentIdentifying compounds of the environment | PhotographsLocal environment | KLB BK1 Pg 1-2Comprehensive BK1 Pg 1Certificate BK1 Pg 1 |  |
|  | 2 | Introduction to Geography | Branches of Geography | By the end of the lesson, the learner should be able toIdentify branches of GeographyDefine physical geographyIdentify branches of physical GeographyDefine and identify branches of human geography | Naming branches of GeographyDefining the branches of GeographyIdentifying branches of Human & Physical Geography | MapsPhotographsA globeLocal environmentAtlases | KLB BK1 Pg 2Comprehensive BK1 Pg 2-5Certificate BK1 Pg 2-3 |  |
|  | 3 | Introduction to Geography | Importance of studying Geography | By the end of the lesson, the learner should be able to:Explain the importance of studying Geography | Explaining the importance of GeographyTaking notesDiscussing importance of studying Geography | ChartsMapsLocal environmentsAtlasText books | KLB BK1 Pg 2-3Comprehensive BK1 Pg 6-7Certificate BK1 Pg 5-6 |  |
| 6 | 1 | Introduction to Geography | Relationship between, Geography and other disciplines | By the end of the lesson, the learner should be able to:Identify the relationship between geography and other disciplines | Identifying and explaining the relationship between geography and other disciplinesDiscussing these relationships Taking notesAsking and answering questions | TextbooksAtlasWell mapsResource person | KLB BK1 Pg 3-6Comprehensive BK1 Pg 7-10Certificate BK1 Pg 5-6 |  |
|  | 2 | Earth and solar system | Composition of the solar system | By the end of the lesson, the learner should be able to:Define solar systemDescribe the composition of the solar system | DemonstratingDiscussingExpositionsDrawing diagrams and sketches | Globe AtlasesWell mapsText booksSatellite photos | KLB BK1 Pg 7-12Comprehensive BK1 Pg 11-14Certificate BK1 Pg 7-11 |  |
|  | 3 | Earth and solar system | Theories that explain the origin of and the formation of the earth | By the end of the lesson, the learner should be able toExplain the origin of the earthDescribe origin, size, shape and position of the earth in the solar system | Oral expositions (explanation)DemonstrationsClass discussionAsking and answering questions | GlobeSatellitePhotosWall maps | KLB BK1 Pg 12-16Comprehensive BK1 Pg 15-20Certificate BK1 Pg 10-13 |  |
| 7 | 1 | Earth and Solar system | Rotation and revolution of the earth | By the end of the lesson, the learner should be able to:Explain how the earth rotates round its axisExplain how the earth revolves round the sunExplain the effects of earth’s rotationExplain the effects of earth’s revolution | DemonstratingClass discussionGroup workDrawing diagrams and sketchingTaking notesExplain rotation and revolution of the earth | Globe AtlasesWall mapsLocal environment | KLB BK1 Pg 17-18Comprehensive BK1 Pg 28-31, 22-24Certificate BK1 Pg13-15 |  |
|  | 2 | Earth and solar system | Longitudes and timeCalculation of time | By the end of the lesson, the learner should be able toCalculate time using longitudes | Calculating timeCalculating distanceGroup workobserving | wall mapsglobeatlasesencyclopediateacher’s Guide | KLB BK1 Pg 19-20Comprehensive BK1 Pg 27-28Certificate BK1 Pg 15-17 |  |
|  | 3 | Earth and solar system | Internal structure of the earth (earth’s crust) | By the end of the lesson, the learner should be able to:Describe the structure if the earthExplain the characteristics of earth’s crust | DiscussingDrawing DiagramsDemonstrating  | GlobeStudent’s bookEncyclopedia  | KLB BK1 Pg 21-22Comprehensive BK1 Pg 28-31Certificate BK1 Pg 18-19 |  |
| 8 | 1 | Earth and solar system | The core (bar sphere)  | By the end of the lesson, the learner should be able toExplain the characteristics and structure of the core | Drawing diagrams and sketchingDiscussingMaking and taking notesWorking in groups | Teacher’s guideLocal environmentGlobeDisplay board | KLB BK1 Pg 23Comprehensive BK1 Pg 31Certificate BK1 Pg 20 |  |
|  | 2 | Earth and solar system | External structure of the earth (hydro-sphere) | By the end of the lesson, the learner should be able toDescribe the structure of the hydrosphere | Drawing/sketchingExplaining (oral explanation)Summarizing | AtlasWall mapsStudent’s bookSatellite photos | KLB BK1 Pg 22Comprehensive BK1 Pg 31-32Certificate BK1 Pg 18 |  |
|  | 3 | Earth and solar system | AtmosphereTroposphereStratosphereMe-sphereThermosphereExosphere | By the end of the lesson, the learner should be able toDescribe the structure of hydrosphere | Explaining (oral explanation)Making and taking notesWorking in groups sketching | student’s bookSupplementary library readingWall mapsAtlas | KLB BK1 Pg 22Comprehensive BK1 Pg 32-33Certificate BK1 Pg 18 |  |
| 9 | 1 | Weather | Meaning of weatherMeaning of climate | By the end of the lesson, the learner should be able to:Define the term weatherDifferentiate between weather and climate | Class discussionMaking and taking notes | Weather ChartsStudents book | KLB BK1 Pg 24Comprehensive BK1 Pg 34Certificate BK1 Pg 21 |  |
|  | 2 | Weather | Elements of weather | By the end of the lesson, the learner should be able to:State the elements of weather | Observing local weather elementsDiscussingExplainingdemonstrating | Resource personWeather charsTeachers Guide | KLB BK1 Pg 24Comprehensive BK1 Pg 34Certificate BK1 Pg 23-27 |  |
|  | 3 | Weather | Factors influencing temperatures in the surface of the earthLatitudesLength of the dayAltitude | By the end of the day, the learner should be able to:Explain factors that influence temperatures on the earth’s surface | Making and taking notesWorking in a groupsummarizing | wall mapsWeathercharts | KLB BK1 Pg 24-25Comprehensive BK1 Pg 35-36Certificate BK1 Pg 24-26 |  |
| 10 | 1 | Weather | Factors influencing weatherDistance from the seaWindsCloud coverAspectAtmosphere pressure | By the end of the lesson, the earner should be able toDescribe factors that influence weather | Explaining (oral expositions)Drawing diagrams and sketchesClass discussion | Weather chartsText booksSchool based weather station | KLB BK1 Pg 45-46Comprehensive BK1 Pg 36-37Certificate BK1 Pg 27-30 |  |
|  | 2 | Weather | Distribution of pressure systemCharacteristics of winds | By the end of the lesson, the learner should be able to:Detail the distribution of pressure systemIdentify the types of clouds | Demonstrating Observing level wingsObserving clouds in the sky | Wall mapsAtlasWeather chartsTeachers Guide | KLB BK1 Pg 30-31Comprehensive BK1 Pg 35-39Certificate BK1 Pg 31-44 |  |
|  | 3 | Weather | I.T.C.2Effects of windLand and sea breeze | By the end of the lesson ,the learner should be able to:Analyze the effects of wind and explain the workings of a land and a sea breeze | Drawing diagramsExplain land and sea breeze | Satellite photosCup counterAnemometerWeather charts | KLB BK1 Pg 30Comprehensive BK1 Pg 39-44Certificate BK1 Pg 42-43 |  |
| 11 | 1 | Weather | Mountain and valley windsHumidity | By the end of the lesson, the learner should be able to:Explain how valley winds originate and moveDefine humidity | Drawing sketchesClass discussionTaking and making notes | Weather chartsText books | KLB BK1 Pg 36-37Comprehensive BK1 Pg 45-46Certificate BK1 Pg 26-27 |  |
|  | 2 | Weather | PrecipitationDewFogMistHailRainfall (cyclonic rainfall) | By the end of the lesson, the learner should be able to:Identify various forms of precipitationDefine cyclonic rain fall | Oral expositionsDemonstratingStudents discussingDrawing sketches | Teacher’s guideWeather chartsRelevant pictures | KLB BK1 Pg 26-28Comprehensive BK1 Pg 47, 51Certificate BK1 Pg 29-30 |  |
|  | 3 | Weather | Convectional rainfallOrographic rainfall | By the end of the lesson, the learner should be able toState the characteristics of convectional and orographic rainfall | Drawing sketchesObserving local weather | SatellitePhotographsWeather chartsMapsStudent’s book | KLB BK1 Pg 27-28Comprehensive BK1 Pg 49-50Certificate BK1 Pg 30-31 |  |
| 12 | 1 | Weather | Study of weather station | By the end of the lesson, the learner should be able toCarry out a field study of a weather station | Drawing sketches and diagramsObserving weather instruments | Weather stationStevenson’s ScreenPictures of weather instruments | KLB BK1 Pg 43-45Comprehensive BK1 Pg 45-46Certificate BK1 Pg 30-31 |  |
|  | 2 | Weather | Weather station –Stevenson’s screenFactors for citing a weather station | By the end of the lesson, the learner should be able to:Explain factors that influence citing of a weather station | Drawing sketches and diagramsObserving weather instruments | Simple weather instruments e.g wind vane, rain gauge, hygrometer, barometer e.t.c | KLB BK1 Pg 32-34Comprehensive BK1 Pg 42-51Certificate BK1 Pg 22-23 |  |
|  | 3 | Weather | Description of the structure and composition of the atmosphere | By the end of the lesson, the learner should be able to:Describe the structure of the atmosphereDescribe the composition of the atmosphere | Taking and making notesAsking and answering questionsDrawing diagrams | Resource personGlobeSatellitePhotographs  | KLB BK1 Pg 32-40Comprehensive BK1 Pg 49-50Certificate BK1 Pg 51-54 |  |
| 13 | 1 | Weather | Measuring elements of weatherPressureTemperaturehumidity | By the end of the lesson, the learner should be able to:explain how weather measuring instruments function | Taking notes and making notesPredicting the weather discussing | Weather instrumentsPictures of weatherInstruments | KLB BK1 Pg 41-43Comprehensive BK1 Pg 56-60Certificate BK1 Pg 45-51 |  |
|  | 2 | Weather | Weather focusingTraditional methodsModern methods | By the end of the lesson, the learner should be able to:Explain how weather focusing is carried out | Analyzing weather data and making conclusions | Weather chartsWeather stationSatellite photos | KLB BK1 Pg 43-45Comprehensive BK1 Pg 66-67Certificate BK1 Pg 54-55 |  |
|  | 3 | Weather | Calculating and recording weather conditionsRainfallTemperaturePressurehumidity | By the end of the lesson, the learner should be able to:describe the weather conditions calculate and record weather conditions | Calculating of the average analyzing weather data and making conclusions | Student’s bookTeachers guideSatellitePhotographs | KLB BK1 Pg 39-40Comprehensive BK1 Pg 60-62Certificate BK1 Pg 55-57 |  |
| **14** |  | **END OF TERM EXAMINATIONS** |  |
| **15** |  | **PREPARATION OF REPORTS AND CLOSING** |  |

**GEOGRAPHY SCHEMES OF WORK**

**FORM ONE 2016**

**TERM II**

**REFERENCES:**

1. KLB Secondary Geography
2. Certificate Geography Students Book
3. Teacher’s Book
4. Gateway Secondary
5. Comprehensive Secondary Geography
6. Focus on Geography

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 1 | 1-3 | **REPORTING AND REVISION OF LAST TERM’S EXAMS** |
| 2 | 1 | Statistical methods | Definitions of statisticsTypes of statistical dataUsage of statistics | By the end of the lesson, the learner should be able to:Define the term statisticsIdentify types and sources of statistical dataState the uses of statistics | Explaining the meaning of statisticsDiscussing the types of statistical dataDiscussing the sources of the statistical data | Figures obtained from a statistical abstract | KLB BK1 Pg 49-50Comprehensive BK1 Pg 36-38Certificate BK1 Pg 61-63 |  |
|  | 2 | Statistical methods | Sources of statistical dataPrimary sourcesSecondary sources | By the end of the lesson, the learner should be able to:Identify primary and secondary sources of statistical data | Visiting the field and interviewing resource persons or observing phenomena directly and recording the information | Statistical abstractAny statistical figuresField obtained data | KLB BK1 Pg 49-50Comprehensive BK1 Pg 75Certificate BK1 Pg 63 |  |
|  | 3 | Statistical Methods | Methods of data collectionObservationInterviewQuestionnaire  | By the end of the lesson, the learner should be able to:Identify and describe methods of collecting and recording data | Visiting the fieldsDiscussingDesigning of questionnaires | Field obtained dataQuestionnaires schedules | KLB BK1 Pg 50-52Comprehensive BK1 Pg 76-79Certificate BK1 Pg 63-64 |  |
| 3 | 1 | Statistical methods | Methods of data collectionThe measurement methodSampling typesRandomSystematicstratified | By the end of the lesson, the learner should be able toidentify the measurement methodidentify and describe the types of sampling | taking and making notesdiscussing | scores on a geographical test in class | KLB BK1 Pg 53-54Comprehensive BK1 Pg 80-82Certificate BK1 Pg 63 |  |
|  | 2 | Statistical methods | Methods of recording dataField sketchingTallyingTabulationPhotographyVideo taping notes taking | By the end of the lesson, the learner should be able to:Analyze and interpret data collected | Discussing various methods of data recording such as note taking photography e.t.c | Field obtained data | KLB BK1 Pg 55-57Comprehensive BK1 Pg 83-85Certificate BK1 Pg 64 |  |
|  | 3 | Statistical methods | Methods of analyzing dataMeanMediumModePercentageFrequency distributionrange | By the end of the lesson, the learner should be able to:Analyze and interpret data collected  | discussing methods of analyzing their merits and demerits | metrological statistics for a specific station on rainfall and temperature | KLB BK1 Pg 57-59Comprehensive BK1 Pg 85-88Certificate BK1 Pg 64-66 |  |
| 4 | 1 | Statistical methods | Data representationLine graphBar graphCombined line and bar graph (polygraph) | By the end of the lesson, the learner should be able to:Present statistical data by use of appropriate graphical methods | Drawing of each graph using data provided | Graph papersProvide climatic statistics for any specific station to plot graph | KLB BK1 Pg 59-64Comprehensive BK1 Pg 88-89Certificate BK1 Pg 66-73 |  |
|  | 2 | Statistical Methods | Simple wind rose | By the end of the lesson, the learner should be able to:Present statistical data using a simple wind rose | Drawing of simple rose using statistical data presented | Provide figures from a statistical abstract to draw a simple wind rose | KLB BK1 Pg 65Comprehensive BK1 Pg 92-93Certificate BK1 Pg 73-74 |  |
|  | 3 | Statistical Methods  | Advantages and disadvantages of each method of data presentation | By the end of the lesson, the learner should be able to:State the advantages and disadvantages of the statistical methods | Discussing the advantages and disadvantages of graphs as a means of presenting data | Class discussionStudent’s book | KLB BK1 Pg 59-65Comprehensive BK1 Pg 88-93Certificate BK1 Pg 66-74 |  |
| 5 | 1 | Maps and Map Work | Definitions of pictures, plans and maps | By the end of the lesson, the learner should be able toDefine the terms picture, plan and map | Drawing a simple plan of the classroomDrawing a simple plan of a school compound | Drawings of simple plans and sketch maps | KLB BK1 Pg 66-68Comprehensive BK1 Pg 95-96Certificate BK1 Pg 75 |  |
|  | 2 | Map and map work | Types of mapsAtlasTopographical sketch | By the end of the lesson, the learner should be able toIdentify the different types of maps | Discussion on the types of maps and types of scales | AtlasTopographical mapsStudent’s book | KLB BK1 Pg 69Comprehensive BK1 Pg 96-97Certificate BK1 Pg 76 |  |
|  | 3 | Maps and map work | Uses of different maps | By the end of the lesson, the learner should be able toIdentify different uses of maps*© Education Plus Agencies* | Taking and making notesExplain the uses of maps | Topographical maps | KLB BK1 Pg 69-70Comprehensive BK1 Pg 97Certificate BK1 Pg 77 |  |
| 6 | 1 | Map and map work | Marginal informationThe keyThe scaleThe compassThe frame | By the end of the lesson, the learner should be able toIdentify different marginal information found in the margin of a map | Learner s viewing various information on select maps | Topographical mapsStudent’s book | KLB BK1 Pg 70-73Comprehensive BK1 Pg 97-98Certificate BK1 Pg 77-80 |  |
|  | 2 | Maps and Map work | Maps scaleRepresentative fractionlinear | By the end of the lesson, the learner should be able to:identify the different types of maps | discussing on types of maps and types of scalesclassroom discussion | provide topographical maps to learners | KLB BK1 Pg 73-74Comprehensive BK1 Pg 99-100Certificate BK1 Pg 81-82 |  |
|  | 3 | Maps and map work | Conversion of scaleR.F to statement scaleR.F to linear scale | By the end of the lesson, the learner should be able to:Perform conversion of the scales | Drawing single sketches of scalesPracticing how to convert scales | Topographical maps | KLB BK1 Pg 74-75Comprehensive BK1 Pg 100-101Certificate BK1 Pg 82 |  |
| 7 | 1 | Maps and map work | Sizes of scalesSmall scaleMedium scaleLarge scale | By the end of the lesson, the learner should be able to:State and explain the different sizes of the scales | Discussion on sizes of the scales | Topographical mapsStudent’s book | KLB BK1 Pg 75-76Comprehensive BK1 Pg 101Certificate BK1 Pg 83 |  |
|  | 2 | Maps and Map work | Uses of scales | By the end of the lesson, the learner should be able to:Identify and explain the different uses of scales | Identifying and explaining the different uses of scales | Topographical maps | KLB BK1 Pg 76-77Comprehensive BK1 Pg 102Certificate BK1 Pg 84-86 |  |
|  | 3 | Maps and Map work | Distances on mapsMeasuring distances along a straight lineUsing a paper edgeUsing a pair of dividers | By the end of the lesson, the learner should be able to:Measure distance using different methods | Practicing how to measure distance between places on maps | Topographical maps | KLB BK1 Pg 77-79Comprehensive BK1 Pg 102-105Certificate BK1 Pg 84 |  |
| 8 | 1 | Maps and Map work | Calculating areas on mapRegular shapes | By the end of the lesson, the learner should be able to:Calculate features in maps using scales | Practicing how to calculate areas of certain features on maps | Student’s bookTopographical maps | KLB BK1 Pg 79Comprehensive BK1 Pg 105Certificate BK1 Pg 87-89 |  |
|  | 2 | Maps and map work | Finding the areas of irregular shapesGrid squares methodGeometry method | By the end of the lesson, the learner should be able toCalculate areas using strips and graph methods | Practicing law Calculate areas of irregular shapes | Teacher’s guideTopographical maps | KLB BK1 Pg 79-80Comprehensive BK1 Pg 105-106Certificate BK1 Pg 89-90 |  |
|  | 3 | Maps and Map work | Strips methodGraphs paper method | By the end of the lesson, the learner should be able toCalculate areas using strips and graph methods | Practicing how to calculate areas of irregular shapes by graph and strips | Transparent graph papers to enable learners to calculate areas | KLB BK1 Pg 80Comprehensive BK1 Pg 107-108Certificate BK1 Pg 90 |  |
| 9 | 1 | Field work | Definition of field workTypes of field work | By the end of the lesson, the learner should be able to:Define the term fieldworkIdentify types of fieldwork | Discussing types of field workOral expositionDefining fieldworkAsking and answering questions | Resource personStudent’s bookLesson notes | KLB BK1 Pg 82Comprehensive BK1 Pg 105Certificate BK1 Pg 91-92 |  |
|  | 2 | Field work | Importance of field work | By the end of the lesson, the learner should be able toExplain the importance of field work | Explaining and describing methods of collecting data e.gObservationInternal questionnaire | Resource personLesson notes Student’s book | KLB BK1 Pg 82-83Comprehensive BK1 Pg 110-111Certificate BK1 Pg 92-93 |  |
|  | 3 | Field work | Field work procedure | By the end of the lesson, the learner should be able toExplain the procedure to be followed during fieldwork | Preparing objectives and hypothesis required for field study | Student’s bookTeacher’s guide | KLB BK1 Pg 83-85Comprehensive BK1 Pg 111Certificate BK1 Pg 93-95 |  |
| 10 | 1 | Field work | Formulating hypothesisReconnaissance  | By the end of the lesson, the learner should be able to:Explain the procedure to be followed during field work | Preparing hypothesis and carrying out reconnaissance study | Formulated hypothesisStudent’s bookTeacher’s guide | KLB BK1 Pg 87Comprehensive BK1 Pg 112-114Certificate BK1 Pg 94-95 |  |
|  | 2 | Field work | Preparation for field work | By the end of the lesson, the learner should be able to:Prepare on how to carry out field study | Students reading about the topic of study from relevant booksGathering equipment, tool, route maps and guiding questions | The field e.g local environment | KLB BK1 Pg 85-88Comprehensive BK1 Pg 115Certificate BK1 Pg 94-96 |  |
|  | 3 | Field work | Problems encountered during fieldwork | By the end of the lesson, the learner should be able toMention some of the possible problems encountered in the field and how to cope with them | Classroom discussionOral expositions Taking and making notes | class notesStudent’s book | KLB BK1 Pg 87-88Comprehensive BK1 Pg 115Certificate BK1 Pg 102-103 |  |
| 11 | 1 | Field work | Sample studies | By the end of the lesson, the learner should be able to:Identify a suitable topic of study and formulate questionnaires and hypothesis | Making notes Drawing sketches and simple maps and formulating hypothesis | The field (local environment)CompassClinometers  | KLB BK1 Pg 89-92Comprehensive BK1 Pg 115-116Certificate BK1 Pg 100-102 |  |
|  | 2 | Field work | Field work within the local environment | By the end of the lesson, the learner should be able to:Carry out reconnaissance pre-visit study of field work | Student’s to actively involve themselves in fieldwork Interviewing resource persons while in the fields | The field (local environmentMagnetic compassClinometers  | KLB BK1 Pg 89-92Comprehensive BK1 Pg 115-116Certificate BK1 Pg 100-102 |  |
|  | 3 | Field work | Field work within the local environment | By the end of the lesson, the learner should be able to:Visit the field ,take notes, draw sketches interviews and photographs | Involvement in the field work by note-taking sketchingCompiling of a comprehensive field report from the field  | The field (local environment)Magnetic compassRelevant stationary | KLB BK1 Pg 89-92Comprehensive BK1 Pg 115-116Certificate BK1 Pg 100-102 |  |
| 12 |  | **TOPICAL REVISION** |  |
| 13 |  | **END TERM EXAMS** |  |
| 14 |  | **PREPARATION OF REPORTS AND CLOSING** |  |

**GEOGRAPHY SCHEMES OF WORK**

**FORM ONE 2016**

**TERM III**

**REFERENCES:**

1. KLB Secondary Geography
2. Certificate Geography Students Book
3. Teacher’s Book
4. Gateway Secondary
5. Comprehensive Secondary Geography
6. Focus on Geography

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
|  1 | 1-3 | **REPORTING AND REVISION OF LAST TERM’S EXAMS** |  |
| 2 | 1 | Minerals and Rocks | Definition of minerals and rocks | By the end of the lesson, the learner should be able to:Define rocks and minerals | Defining the terms mineral and rocksClassroom discussion | Rock samplesGeological mapsStudent’s book | KLB BK1 Pg 94-95Comprehensive BK1 Pg 119Certificate BK1 Pg 105 |  |
|  | 2 | Minerals and rocks | Characteristics of minerals | By the end of the lesson, the learner should be able to:State the characteristics of minerals | Discussion on the various characteristics of mineralsMaking and taking notesDrawing sketchAsking and answering questions |  | KLB BK1 Pg 95-96Comprehensive BK1 Pg 119-120Certificate BK1 Pg 105-106 |  |
|  | 3 | Minerals and rocks | RocksIgneous rocks (intrusive) | By the end of the lesson, the learner should be able to:Classify intrusive igneous rocks according to the mode of formation | Discussing the various modes of formation of igneous rocksClassifying igneous rocksOral expositionClass debating | Resource person as a geologist | KLB BK1 Pg 96-97Comprehensive BK1 Pg 120-122Certificate BK1 Pg 106-107 |  |
| 3 | 1 | Minerals and Rocks | Igneous rocks (extrusive) | By the end of the lesson, the learner should be able to:Classify extrusive igneous rocks | Making and taking notesExpositionDiscussion on the extrusive rocks | Rocks specimensGeological mapsPhotographs of rocks | KLB BK1 Pg 98-99Comprehensive BK1 Pg 122-128Certificate BK1 Pg 107-108 |  |
|  | 2 | Minerals and Rocks | Sedimentary rocksMechanically formedOrganically formedChemically formed | By the end of the lesson, the learner should be able to Explain sedimentary rocks | Making and taking notesDiscussionListening and expositionAsking and answering questions | Student’s booksRock specimens | KLB BK1 Pg 100-102Comprehensive BK1 Pg 124-128Certificate BK1 Pg 109-110 |  |
|  | 3 | Minerals and rocks | Metamorphic rocksDynamic metamorphismThermal dynamic metamorphism | By the end of the lesson, the learner should be able to:Explain dynamic and thermal dynamic metamorphism | Making and taking notesExplaining rock formation by metamorphismDescribing process of metamorphism | Geological mapsTeacher’s guideRock specimens | KLB BK1 Pg 102-103Comprehensive BK1 Pg 128-130Certificate BK1 Pg 111 |  |
| 4 | 1 | Mineral and Rocks | Thermal metamorphism | By the end of the lesson, the learner should be able to:Classify and explain rocks formed by thermal metamorphism | Taking and making notesDemonstration | Local environmentTeacher’s GuideDiagrams and photographs of rocks formed by thermal metamorphism | KLB BK1 Pg 102-103Comprehensive BK1 Pg 128-130Certificate BK1 Pg 111 |  |
|  | 2 | Minerals and rocks | Classification of rocks by age | By the end of the lesson, the learner should be able to:Classify rocks according to age | Classroom discussion on rock classificationOral expositiondemonstrating | rock specimenGeological maps | KLB BK1 Pg 103Comprehensive BK1 Pg 133Certificate BK1 Pg 11-113 |  |
|  | 3 | Minerals and Rocks | Characteristics of rocks | By the end of the lesson, the learner should be able to:State the characteristics of rocks | Asking and answering questionsDiscussion on the characteristics of rocksStating the characteristics of rocks | Local environmentDiagrams and photographs of rocksRock specimens | KLB BK1 Pg 102-104Comprehensive BK1 Pg 132-134Certificate BK1 Pg 113 |  |
| 5 | 1 | Minerals and Rocks | Distribution of rocks types in Kenya | By the end of the lesson, the learner should be able to:Account for the distribution of major types of rocks in Kenya | Drawing a sketch of map of KenyaAsking and answering questionsDiscussion the distribution of rocksMaking and taking notes | AtlasGeological mapsDiagrams and photographs of different rocks | KLB BK1 Pg 104-106Comprehensive BK1 Pg 134Certificate BK1 Pg 113-114 |  |
|  | 2 | Minerals and Rocks | Distribution of Rocks types in Kenya | By the end of the lesson, the learner should be able to:Account for the distribution of rocks in Kenya | Oral expositionDrawing diagrams of rocksDiscussing the distribution of rocksTaking and making notes | AtlasGeological mapsDiagrams and Photographs of different rocks | KLB BK1 Pg 104-106Comprehensive BK1 Pg 134Certificate BK1 Pg 113-114 |  |
|  | 3 | Minerals and Rocks | Significance of Rocks | By the end of the lesson, the learner should be able to:Explain the significance of rocks | Taking and making notesOral expositionClass debatingExplaining usefulness of rocks | Sample of rocksTeachers GuideStudent’s Book | KLB BK1 Pg 106-109Comprehensive BK1 Pg 135Certificate BK1 Pg 114-116 |  |
| 6 | 1 | Minerals and Rocks | Field work | By the end of the lesson, the learner should be able to:Identify major types of rocks and their uses within the local environment | Collecting rock samples from local environmentIdentifying and classifying them | Rock samples (specimens from the field) | KLB BK1 Pg 109Comprehensive BK1 Pg 135Certificate BK1 Pg 116 |  |
|  | 2 | Minerals and Rocks | Practical work | By the end to the lesson, the learner should be able to:Do practical work, identify and collect rock samples | Displaying fully labeled rock samplesIdentifying types of rocks | Rock samplesPhotographs of rocksPictures and diagrams of rocks | KLB BK1 Pg 109Comprehensive BK1 Pg 135Certificate BK1 Pg 116 |  |
|  | 3 | Minerals and Rock | Assessment | By the end of the lesson, the learner should be able to:Correctly answer the questions asked | Tackling an exercise | QuizzesExercise from student’s bookDrawingsRelevant stationery | KLB BK1 Pg 109Comprehensive BK1 Pg 136Certificate BK1 Pg 116 |  |
| 7 | 1 | Mining | Definition of mining | By the end of the lesson, the learner should be able to:Define mining | Defining miningTaking and making notesClass discussion on mining | Samples of mineralsPictures of mineralsLesson notes | KLB BK1 Pg 110Comprehensive BK1 Pg 137Certificate BK1 Pg 117 |  |
|  | 2 | Mining | Factors influencing mining | By the end of the lesson, the learner should be able toExplain factors influencing the occurrence of minerals | Oral expositionMaking and taking notesDescribing the occurrence of mineralsIdentifying factors that influence mineral occurrences | Charts on mineralsPictures and diagrams of minerals | KLB BK1 Pg 110-111Comprehensive BK1 Pg 137-138Certificate BK1 Pg 117 |  |
|  | 3 | Mining | Factors influencing exploitation of mining | By the end of the lesson, the learner should be able to:Explain factors influencing the exploitation of minerals | Stating factors that influence mineral exploitationTaking and making notesExplaining terms | Photographs of mineralsTeachers GuideLesson notes  | KLB BK1 Pg 111-112Comprehensive BK1 Pg 138-140Certificate BK1 Pg 118-119 |  |
| 8 | 1 | Mining | Mining methods ( surface mining) | By the end of the lesson, the learner should be able to:Describe surface mining as a method of mining | Describing surface miningTaking and making notesClassroom discussion on surface mining | Charts on surface miningLesson notes | KLB BK1 Pg 112-113Comprehensive BK1 Pg 141-143Certificate BK1 Pg 119-120 |  |
|  | 2 | Mining | Methods of mining (underground mining) | By the end of the lesson, the learner should be able to:Describe underground mining | Describing the underground miningTaking and making notesListing various methods of underground mining | Charts on underground miningLesson notes | KLB BK1 Pg 113-115Comprehensive BK1 Pg 143-145Certificate BK1 Pg 119 |  |
|  | 3 | Mining | Distribution of major minerals in East Africa | By the end of the lesson, the learner should be able toAccount for the distribution of minerals in Kenya | Drawing a map showing the location of major minerals in KenyaMaking notes and taking themAsking and answering questions | AtlasLesson notesGeological mapCharts | KLB BK1 Pg 116-118Comprehensive BK1 Pg 145-147Certificate BK1 Pg 120-122 |  |
| 9 | 1 | Mining | Distribution of major minerals in East Africa | By the end of the lesson, the learner should be able to:Account for the distribution of minerals in Kenya | Explaining the various localities where minerals are foundLocating the mineral sites | AtlasGeological mapsCharts on minerals | KLB BK1 Pg 116-117Comprehensive BK1 Pg 145-147Certificate BK1 Pg 122-132 |  |
|  | 2 | Mining | Significance of minerals in Kenya | By the end of the lesson, the learner should be able to:Explain the economic importance of minerals in Kenya | Discussing the importance of minerals in KenyaOral expositionAsking and answering questions | Newspaper cuttings in mineralsLesson notesProducts of minerals | KLB BK1 Pg 115-116Comprehensive BK1 Pg 147-149Certificate BK1 Pg 133 |  |
|  | 3 | Mining | Problems facing the mining industry in Kenya | By the end of the lesson, the learner should be able to:Account for the problems facing the mining industry in Kenya | Describing the problems facing mining in KenyaOral expositionDiscussion on the problems facing mining industries in Kenya | Lesson notesTeachers guideStudent’s book | KLB BK1 Pg 118-120Comprehensive BK1 Pg 149-153Certificate BK1 Pg 133-137 |  |
| 10 | 1 | Mining | Trona mining in lake Magadi | By the end of the lesson, the learner should be able to:Describe the occurrence of exploitation of Trona in lake Magadi | Illustrating the occurrence of soda ash in lake MagadiDrawing sketchAsking and answering questions | MapsCharts student’s book | KLB BK1 Pg 120-121Comprehensive BK1 Pg 153-154Certificate BK1 Pg 122-123 |  |
|  | 2 | Mining | Gold mining in South Africa | By the end of the lesson, the learner should be able to:Describe and explain the occurrence and exploitation of Gold in south Africa | Locating the main areas of gold in south AfricaDrawing sketch diagramsAsking and answering questions | AtlasLesson notesMaps charts on Gold in S.ATeacher’s guide | KLB BK1 Pg 121-123Comprehensive BK1 Pg 155-157Certificate BK1 Pg 126-128 |  |
|  | 3 | Mining | Diamond mining in South Africa | By the end of the lesson, the learner should be able to:Describe the occurrence and exploitation of diamonds in South Africa | Identifying areas rich in diamondsDrawing diagrams and sketches | MapsChartsLesson notesStudent’s | KLB BK1 Pg 123-125Comprehensive BK1 Pg 155-157Certificate BK1 Pg 125 |  |
| 11 | 1 | Mining | Problems and contributions of mining in S.A | By the end of the lesson, the learner should be able to:Account for the problems facing mining in South Africa | Discussion of the problems facing mining in South AfricaTaking and making notesAsking and answering questions | Student’s BookNewspaper cuttingsFilmsClass notes | KLB BK1 Pg 125Comprehensive BK1 Pg 156-159Certificate BK1 Pg 133-136 |  |
|  | 2 | Mining | Petroleum mining in the Middle East | By the end of the lesson, the learner should be able to:Describe the occurrence of petroleum and its exploitation in the middle East | Asking and answering questionsDiscussion on the occurrenceMaking and taking notes | Teacher’s guideNewspaper cuttingsStudent’s book Maps:Lesson notes | KLB BK1 Pg 125-129Comprehensive BK1 Pg 160-162Certificate BK1 Pg 136 |  |
|  | 3 | Mining | Contribution and problems facing oil industry in middle East | By the end of the lesson, the learner should be able toExplain the contribution of petroleum to economy of the Middle East | Explaining the importance of petroleum to the middle EastMaking notesDiscussion on the contribution of oil in the Middle East | Lesson notesStudent’s bookTeacher’s bookPictures and photographs of industry | KLB BK1 Pg 129-131Comprehensive BK1 Pg 162-163Certificate BK1 Pg 137-138 |  |
| 12 |  | **END OF YEAR EXAMINATIONS** |  |