**GEOGRAPHY SCHEMES OF WORK**

**FORM ONE 2020**

**TERM I**

**REFERENCES:**

1. KLB Secondary Geography
2. Certificate Geography Students Book
3. Comprehensive Secondary Geography

**TERM ONE FORM ONE**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| WK | | **LSN** | | **TOPIC** | | | **SUB-TOPIC** | **OBJECTIVES** | | | **L/ACTIVITIES** | | **L/T AIDS** | | **REFERENCE** | **REMARKS** |
| 2 | |  | | REPORTING | | | | | | | | | | | |  |
| 3 | | 1 | | Introduction to Geography | | | Introduction  Definition of geography and environment  Origin of terms  Geography  Environment  Components of the environment | By the end of the lesson, the learner should be able to  Define terms geography and environment  Explain the origin of Geography and environment  Describe the components of environment | | | Defining the terms Geography and environment  Explaining the origin of geography and environment  Identifying compounds of the environment | | Photographs  Local environment | KLB BK1 Pg 1-2  Comprehensive BK1 Pg 1  Certificate BK1 Pg 1 | |  |
|  | | 2 | | Introduction to Geography | | | Branches of Geography | By the end of the lesson, the learner should be able to  Identify branches of Geography  Define physical geography  Identify branches of physical Geography  Define and identify branches of human geography | | | Naming branches of Geography  Defining the branches of Geography  Identifying branches of Human & Physical Geography | | Maps  Photographs  A globe  Local environment  Atlases | KLB BK1 Pg 2  Comprehensive BK1 Pg 2-5  Certificate 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 Geography  Taking notes  Discussing importance of studying Geography | | Charts  Maps  Local environments  Atlas  Text books | KLB BK1 Pg 2-3  Comprehensive BK1 Pg 6-7  Certificate BK1 Pg 5-6 | |  |
| 4 | | 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 disciplines  Discussing these relationships  Taking notes  Asking and answering questions | | Textbooks  Atlas  Well maps  Resource person | KLB BK1 Pg 3-6  Comprehensive BK1 Pg 7-10  Certificate 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 system  Describe the composition of the solar system | | | Demonstrating  Discussing  Expositions  Drawing diagrams and sketches | | Globe  Atlases  Well maps  Text books  Satellite photos | KLB BK1  Pg 7-12  Comprehensive BK1 Pg 11-14  Certificate 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 to  Explain the origin of the earth  Describe origin, size, shape and position of the earth in the solar system | | | Oral expositions (explanation)  Demonstrations  Class discussion  Asking and answering questions | | Globe  Satellite  Photos  Wall maps | KLB BK1  Pg 12-16  Comprehensive BK1 Pg 15-20  Certificate BK1 Pg 10-13 | |  |
| 5 | | 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 axis  Explain how the earth revolves round the sun  Explain the effects of earth’s rotation  Explain the effects of earth’s revolution | | | Demonstrating  Class discussion  Group work  Drawing diagrams and sketching  Taking notes  Explain rotation and revolution of the earth | | Globe  Atlases  Wall maps  Local environment | KLB BK1  Pg 17-18  Comprehensive BK1 Pg 28-31, 22-24  Certificate BK1 Pg13-15 | |  |
|  | | 2 | | Earth and solar system | | | Longitudes and time  Calculation of time | By the end of the lesson, the learner should be able to  Calculate time using longitudes | | | Calculating time  Calculating distance  Group work  observing | | wall maps  globe  atlases  encyclopedia  teacher’s Guide | KLB BK1  Pg 19-20  Comprehensive BK1 Pg 27-28  Certificate 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 earth  Explain the characteristics of earth’s crust | | | Discussing  Drawing  Diagrams  Demonstrating | | Globe  Student’s book  Encyclopedia | KLB BK1  Pg 21-22  Comprehensive BK1 Pg 28-31  Certificate BK1 Pg 18-19 | |  |
| 6 | | 1 | | Earth and solar system | | | The core (bar sphere) | By the end of the lesson, the learner should be able to  Explain the characteristics and structure of the core | | | Drawing diagrams and sketching  Discussing  Making and taking notes  Working in groups | | Teacher’s guide  Local environment  Globe  Display board | KLB BK1 Pg 23  Comprehensive BK1 Pg 31  Certificate 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 to  Describe the structure of the hydrosphere | | | Drawing/sketching  Explaining (oral explanation)  Summarizing | | Atlas  Wall maps  Student’s book  Satellite photos | KLB BK1  Pg 22  Comprehensive BK1 Pg 31-32  Certificate BK1 Pg 18 | |  |
|  | | 3 | | Earth and solar system | | | Atmosphere  Troposphere  Stratosphere  Mesosphere  Thermosphere  Exosphere | By the end of the lesson, the learner should be able to  Describe the structure of hydrosphere | | | Explaining (oral explanation)  Making and taking notes  Working in groups  sketching | | student’s book  Supplementary library reading  Wall maps  Atlas | KLB BK1  Pg 22  Comprehensive BK1 Pg 32-33  Certificate BK1 Pg 18 | |  |
| 7 | | |  | | --- | |  |   **MID TERM BREAK** | | | | | | | | | | | | | | |
| 8 | | 1 | | Weather | | | Meaning of weather  Meaning of climate | By the end of the lesson, the learner should be able to:  Define the term weather  Differentiate between weather and climate | | | Class discussion  Making and taking notes | | Weather  Charts  Students book | KLB BK1  Pg 24  Comprehensive BK1 Pg 34  Certificate 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 elements  Discussing  Explaining  demonstrating | | Resource person  Weather chars  Teachers Guide | KLB BK1 Pg 24  Comprehensive BK1 Pg 34  Certificate BK1 Pg 23-27 | |  |
|  | | 3 | | Weather | | | Factors influencing temperatures in the surface of the earth  Latitudes  Length of the day  Altitude | 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 notes  Working in a group  summarizing | | wall maps  Weather  charts | KLB BK1  Pg 24-25  Comprehensive BK1 Pg 35-36  Certificate BK1 Pg 24-26 | |  |
| 9 | | 1 | | Weather | | | Factors influencing weather  Distance from the sea  Winds  Cloud cover  Aspect  Atmosphere pressure | By the end of the lesson, the earner should be able to  Describe factors that influence weather | | | Explaining (oral expositions)  Drawing diagrams and sketches  Class discussion | | Weather charts  Text books  School based weather station | KLB BK1  Pg 45-46  Comprehensive BK1 Pg 36-37  Certificate BK1 Pg 27-30 | |  |
|  | | 2 | | Weather | | | Distribution of pressure system  Characteristics of winds | By the end of the lesson, the learner should be able to:  Detail the distribution of pressure system  Identify the types of clouds | | | Demonstrating  Observing level wings  Observing clouds in the sky | | Wall maps  Atlas  Weather charts  Teachers Guide | KLB BK1  Pg 30-31  Comprehensive BK1 Pg 35-39  Certificate BK1 Pg 31-44 | |  |
|  | | 3 | | Weather | | | I.T.C.2  Effects of wind  Land 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 diagrams  Explain land and sea breeze | | Satellite photos  Cup counter  Anemometer  Weather charts | KLB BK1 Pg 30  Comprehensive BK1 Pg 39-44  Certificate BK1 Pg 42-43 | |  |
| 10 | | 1 | | Weather | | | Mountain and valley winds  Humidity | By the end of the lesson, the learner should be able to:  Explain how valley winds originate and move  Define humidity | | | Drawing sketches  Class discussion  Taking and making notes | | Weather charts  Text books | KLB BK1  Pg 36-37  Comprehensive BK1 Pg 45-46  Certificate BK1 Pg 26-27 | |  |
|  | | 2 | | Weather | | | Precipitation  Dew  Fog  Mist  Hail  Rainfall (cyclonic rainfall) | By the end of the lesson, the learner should be able to:  Identify various forms of precipitation  Define cyclonic rain fall | | | Oral expositions  Demonstrating  Students discussing  Drawing sketches | | Teacher’s guide  Weather charts  Relevant pictures | KLB BK1  Pg 26-28  Comprehensive BK1 Pg 47, 51  Certificate BK1 Pg 29-30 | |  |
|  | | 3 | | Weather | | | Convectional rainfall  Orographic rainfall | By the end of the lesson, the learner should be able to  State the characteristics of convectional and orographic rainfall | | | Drawing sketches  Observing local weather | | Satellite  Photographs  Weather charts  Maps  Student’s book | KLB BK1  Pg 27-28  Comprehensive BK1 Pg 49-50  Certificate BK1 Pg 30-31 | |  |
| 11 | | 1 | | Weather | | | Study of weather station | By the end of the lesson, the learner should be able to  Carry out a field study of a weather station | | | Drawing sketches and diagrams  Observing weather instruments | | Weather station  Stevenson’s Screen  Pictures of weather instruments | KLB BK1  Pg 43-45  Comprehensive BK1 Pg 45-46  Certificate BK1 Pg 30-31 | |  |
|  | | 2 | | Weather | | | Weather station –Stevenson’s screen  Factors 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 diagrams  Observing weather instruments | | Simple weather instruments e.g wind vane, rain gauge, hygrometer, barometer e.t.c | KLB BK1  Pg 32-34  Comprehensive BK1 Pg 42-51  Certificate 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 atmosphere  Describe the composition of the atmosphere | | | Taking and making notes  Asking and answering questions  Drawing diagrams | | Resource person  Globe  Satellite  Photographs | KLB BK1  Pg 32-40  Comprehensive BK1 Pg 49-50  Certificate BK1 Pg 51-54 | |  |
| 12 | | 1 | | Weather | | | Measuring elements of weather  Pressure  Temperature  humidity | By the end of the lesson, the learner should be able to:  explain how weather measuring instruments function | | | Taking notes and making notes  Predicting the weather  discussing | | Weather instruments  Pictures of weather  Instruments | KLB BK1  Pg 41-43  Comprehensive BK1 Pg 56-60  Certificate BK1 Pg 45-51 | |  |
|  | | 2 | | Weather | | | Weather focusing  Traditional methods  Modern methods | By the end of the lesson, the learner should be able to:  Define weather forecasting  Effects of weather forecasting/significance to economic activities | | | Analyzing weather data and making conclusions | | Weather charts  Weather station  Satellite photos | KLB BK1  Pg 43-45  Comprehensive BK1 Pg 66-67  Certificate BK1 Pg 54-55 | |  |
|  | | 3 | | Weather | | | Calculating and recording weather conditions  Rainfall  Temperature  Pressure  humidity | 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 book  Teachers guide  Satellite  Photographs | KLB BK1  Pg 39-40  Comprehensive BK1 Pg 60-62  Certificate BK1 Pg 55-57 | |  |
| 13&14 | | | **REVISION AND END OF TERM ONE, FORM ONE EXAMINATIONS** | | | | | | | | | | | | | | |
| **SECOND TERM, FORM ONE** | | | | | | | | | | | | | | | | | | |
| week | Lesson | | | | topic | Sub-topic | | | objectives | Learning activities | | Learning aids | | reference | | remarks | | |
| 1 | 1 | | | | Statistical methods | Methods of recording data  Field sketching  Tallying  Tabulation  Photography  Video 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 55-57  Comprehensive BK1 Pg 83-85  Certificate BK1 Pg 64 | |  | | |
|  | 2 | | | | Statistical methods | Methods of analyzing data  Mean  Medium  Mode  Percentage  Frequency distribution  range | | | 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 57-59  Comprehensive BK1 Pg 85-88  Certificate BK1 Pg 64-66 | |  | | |
|  | 3 | | | | Statistical methods | Data representation  Line graph  Bar graph  Combined 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 papers  Provide climatic statistics for any specific station to plot graph | | KLB BK1  Pg 59-64  Comprehensive BK1 Pg 88-89  Certificate BK1 Pg 66-73 | |  | | |
|  | 4 | | | | 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 65  Comprehensive BK1 Pg 92-93  Certificate BK1 Pg 73-74 | |  | | |
| 2 | 1 | | | | 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 discussion  Student’s book | | KLB BK1  Pg 59-65  Comprehensive BK1 Pg 88-93  Certificate BK1 Pg 66-74 | |  | | |
|  | 2 | | | | Maps and Map Work | Definitions of pictures, plans and maps | | | By the end of the lesson, the learner should be able to  Define the terms picture, plan and map | Drawing a simple plan of the classroom  Drawing a simple plan of a school compound | | Drawings of simple plans and sketch maps | | KLB BK1  Pg 66-68  Comprehensive BK1 Pg 95-96  Certificate BK1 Pg 75 | |  | | |
|  | 3 | | | | Map and map work | Types of maps  Atlas  Topographical sketch | | | By the end of the lesson, the learner should be able to  Identify the different types of maps | Discussion on the types of maps and types of scales | | Atlas  Topographical maps  Student’s book | | KLB BK1 Pg 69  Comprehensive BK1 Pg 96-97  Certificate BK1 Pg 76 | |  | | |
|  | 4 | | | | Maps and map work | Uses of different maps | | | By the end of the lesson, the learner should be able to  Identify different uses of maps  *© Education Plus Agencies* | Taking and making notes  Explain the uses of maps | | Topographical maps | | KLB BK1  Pg 69-70  Comprehensive BK1 Pg 97  Certificate BK1 Pg 77 | |  | | |
| 3 | 1` | | | | Map and map work | Marginal information  The key  The scale  The compass  The frame | | | By the end of the lesson, the learner should be able to  Identify different marginal information found in the margin of a map | Learner s viewing various information on select maps | | Topographical maps  Student’s book | | KLB BK1  Pg 70-73  Comprehensive BK1 Pg 97-98  Certificate BK1 Pg 77-80 | |  | | |
|  | 2 | | | | Maps and Map work | Maps scale  Representative fraction  linear | | | By the end of the lesson, the learner should be able to:  identify the different types of maps scales | discussing on types of maps and types of scales  classroom discussion | | provide topographical maps to learners | | KLB BK1  Pg 73-74  Comprehensive BK1 Pg 99-100  Certificate BK1 Pg 81-82 | |  | | |
|  | 3 | | | | Maps and map work | Conversion of scale  R.F to statement scale  R.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 scales  Practicing how to convert scales | | Topographical maps | | KLB BK1  Pg 74-75  Comprehensive BK1 Pg 100-101  Certificate BK1 Pg 82 | |  | | |
|  | 4 | | | | Maps and map work | Map scales scales  Small scale  Medium scale  Large 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 maps  Student’s book | | KLB BK1  Pg 75-76  Comprehensive BK1 Pg 101  Certificate BK1 Pg 83 | |  | | |
| 4 | 1 | | | | 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 76-77  Comprehensive BK1 Pg 102  Certificate BK1 Pg 84-86 | |  | | |
|  | 2 | | | | Maps and Map work | Distances on maps  Measuring distances along a straight line  Using a paper edge  Using 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 77-79  Comprehensive BK1 Pg 102-105  Certificate BK1 Pg 84 | |  | | |
|  | 3 | | | | Maps and Map work | Calculating areas on map  Regular 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 book  Topographical maps | | KLB BK1 Pg 79  Comprehensive BK1 Pg 105  Certificate BK1 Pg 87-89 | |  | | |
|  | 4 | | | | Maps and map work | Finding the areas of irregular shapes  Grid squares method  Geometry method | | | By the end of the lesson, the learner should be able to  Calculate areas using strips and graph methods | Practicing law  Calculate areas of irregular shapes | | Teacher’s guide  Topographical maps | | KLB BK1  Pg 79-80  Comprehensive BK1 Pg 105-106  Certificate BK1 Pg 89-90 | |  | | |
| 5 | 1 | | | | Maps and Map work | Strips method  Graphs paper method | | | By the end of the lesson, the learner should be able to  Calculate 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 80  Comprehensive BK1 Pg 107-108  Certificate BK1 Pg 90 | |  | | |
|  | 2 | | | | Question on maps and map work | Q uiz | | | Attemting all questions on mapwork |  | |  | |  | |  | | |
|  | 3 | | | | Revision of mapwork questions |  | | | revision |  | |  | |  | |  | | |
|  | 4 | | | | Further revision on : majorly the area and measurements of distance on maps | | | | | | | | | | | | | |
| 6 | 1 | | | |
|  | 2 | | | | Field work | Definition of field work  Types of field work | | | By the end of the lesson, the learner should be able to:  Define the term fieldwork  Identify types of fieldwork | Discussing types of field work  Oral exposition  Defining fieldwork  Asking and answering questions | | Resource person  Student’s book  Lesson notes | | KLB BK1 Pg 82  Comprehensive BK1 Pg 105  Certificate BK1 Pg 91-92 | |  | | |
|  | 3 | | | | Field work | Importance of field work | | | By the end of the lesson, the learner should be able to  Explain the importance of field work in geographical studies | Explaining and describing methods of collecting data e.g  Observation  Internal questionnaire | | Resource person  Lesson notes  Student’s book | | KLB BK1  Pg 82-83  Comprehensive BK1 Pg 110-111  Certificate BK1 Pg 92-93 | |  | | |
|  | 4 | | | | Field work | Field work procedure | | | By the end of the lesson, the learner should be able to  Explain the procedure to be followed during fieldwork | Preparing objectives and hypothesis required for field study | | Student’s book  Teacher’s guide | | KLB BK1  Pg 83-85  Comprehensive BK1 Pg 111  Certificate BK1 Pg 93-95 | |  | | |
| 7 | 1 | | | | Field work | Field work procedure | | | By the end of the lesson, the learner should be able to  Explain the procedure to be followed during fieldwork | Preparing objectives and hypothesis required for field study | | Student’s book  Teacher’s guide | | sKLB BK1  Pg 83-85  Comprehensive BK1 Pg 111  Certificate BK1 Pg 93-95 | |  | | |
|  | 2 | | | | Field work | Formulating hypothesis  Reconnaissance | | | 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 hypothesis  Student’s book  Teacher’s guide | | KLB BK1 Pg 87  Comprehensive BK1 Pg 112-114  Certificate BK1 Pg 94-95 | |  | | |
|  | 3 | | | | Field work | Formulating hypothesis  Reconnaissance | | | 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 hypothesis  Student’s book  Teacher’s guide | | KLB BK1 Pg 87  Comprehensive BK1 Pg 112-114  Certificate BK1 Pg 94-95 | |  | | |
|  | 4 | | | | Field work | Methods of data collection and research equipments | | | By the end of the lesson, the learner should be able to:  Explain and construct questionnaires  State research equipments | Constructing questionnaires | | Formulated questionnaires | | KLB BK1 Pg 87  Comprehensive BK1 Pg 112-114  Certificate BK1 Pg 94-95 | |  | | |
| 8 | 1 | | | | Field work | Methods of data recording | | | By the end of the lesson, the learner should be able to: state the methods of data recording correctly | Discussion  Writing notes  comparisons | | Student’s book  Teacher’s guide | | KLB BK1 Pg 87  Comprehensive BK1 Pg 112-114  Certificate BK1 Pg 94-95 | |  | | |
|  | 2 | | | | Field work | Methods of data presentation | | | By the end of the lesson, the learner should be able to: state the methods of data presentation correctly  Analyze the statistical data using the above methods | Discussion  Writing notes  comparisons | | Student’s book  Teacher’s guide | | KLB BK1 Pg 87  Comprehensive BK1 Pg 112-114  Certificate BK1 Pg 94-95 | |  | | |
|  | 3 | | | | Field work | Problems encountered during fieldwork and tentative solutions | | | By the end of the lesson, the learner should be able to  Mention some of the possible problems encountered in the field and how to cope with them | Classroom discussion  Oral expositions  Taking and making notes | | class notes  Student’s book | | KLB BK1  Pg 87-88  Comprehensive BK1 Pg 115  Certificate BK1 Pg 102-103 | |  | | |
|  | 4 | | | | 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)  Compass  Clinometers | | KLB BK1  Pg 89-92  Comprehensive BK1 Pg 115-116  Certificate BK1 Pg 100-102 | |  | | |
| 9 | 1 | | | | 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 area | Student’s to actively involve themselves in fieldwork  Interviewing resource persons while in the fields | | The field (local environment  Magnetic compass  Clinometers | | KLB BK1  Pg 89-92  Comprehensive BK1 Pg 115-116  Certificate BK1 Pg 100-102 | |  | | |
|  | 2 | | | | Field work | Field work within the local environment or around the school | | | 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 sketching  Compiling of a comprehensive field report from the field | | The field (local environment)  Magnetic compass  Relevant stationary | | KLB BK1  Pg 89-92  Comprehensive BK1 Pg 115-116  Certificate BK1 Pg 100-102 | |  | | |
|  | 3 | | | | Field work | Follow up activities | | | By the end of the lesson, the learner should be able to:  State the follow up activities | Involvement in the field work by note-taking sketching  Compiling of a comprehensive field report from the field | | The field (local environment)  Magnetic compass  Relevant stationary | | KLB BK1  Pg 89-92  Comprehensive BK1 Pg 115-116  Certificate BK1 Pg 100-102 | |  | | |
|  | 4 | | | | Revision questions on field work | | | | | | | | | | | | | |

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| 10 | 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 rocks  Classroom discussion | Rock samples  Geological maps  Student’s book | KLB BK1  Pg 94-95  Comprehensive BK1 Pg 119  Certificate 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 minerals  Making and taking notes  Drawing sketch  Asking and answering questions |  | KLB BK1  Pg 95-96  Comprehensive BK1 Pg 119-120  Certificate BK1 Pg 105-106 |  |
|  | 3 | | Minerals and rocks | Classification of rockss  Igneous 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 rocks  Classifying igneous rocks  Oral exposition  Class debating | Resource person as a geologist | KLB BK1  Pg 96-97  Comprehensive BK1 Pg 120-122  Certificate BK1 Pg 106-107 |  |
|  | 4 | | 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 notes  Exposition  Discussion on the extrusive rocks | Rocks specimens  Geological maps  Photographs of rocks | KLB BK1  Pg 98-99  Comprehensive BK1 Pg 122-128  Certificate BK1 Pg 107-108 |  |
| 11 | 1 | | Minerals and Rocks | Sedimentary rocks  Mechanically formed | By the end of the lesson, the learner should be able to  Explain mechanically formed sedimentary rocks | Making and taking notes  Discussion  Listening and exposition  Asking and answering questions | Student’s books  Rock specimens | KLB BK1  Pg 100-102  Comprehensive BK1 Pg 124-128  Certificate BK1 Pg 109-110 |  |
|  | 2 | | Minerals and Rocks | Sedimentary rocks  Organically formed | By the end of the lesson, the learner should be able to  Explain organically formed sedimentary rocks | Making and taking notes  Discussion  Listening and exposition  Asking and answering questions | Student’s books  Rock specimens | KLB BK1  Pg 100-102  Comprehensive BK1 Pg 124-128  Certificate BK1 Pg 109-110 |  |
|  | 3 | | Minerals and Rocks | Sedimentary rocks  Chemically formed | By the end of the lesson, the learner should be able to  Explain chemically formed sedimentary rocks | Making and taking notes  Discussion  Listening and exposition  Asking and answering questions | Student’s books  Rock specimens | KLB BK1  Pg 100-102  Comprehensive BK1 Pg 124-128  Certificate BK1 Pg 109-110 |  |
|  | 4 | | Minerals and rocks | Metamorphic rocks  Dynamic metamorphism  Thermal dynamic metamorphism | By the end of the lesson, the learner should be able to:  Explain dynamic and thermal dynamic metamorphism | Making and taking notes  Explaining rock formation by metamorphism  Describing process of metamorphism | Geological maps  Teacher’s guide  Rock specimens | KLB BK1  Pg 102-103  Comprehensive BK1 Pg 128-130  Certificate BK1 Pg 111 |  |
| 12 | 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 notes  Demonstration | Local environment  Teacher’s Guide  Diagrams and photographs of rocks formed by thermal metamorphism | KLB BK1  Pg 102-103  Comprehensive BK1 Pg 128-130  Certificate 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 classification  Oral exposition  demonstrating | rock specimen  Geological maps | KLB BK1 Pg 103  Comprehensive BK1 Pg 133  Certificate 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 questions  Discussion on the characteristics of rocks  Stating the characteristics of rocks | Local environment  Diagrams and photographs of rocks  Rock specimens | KLB BK1  Pg 102-104  Comprehensive BK1 Pg 132-134  Certificate BK1 Pg 113 |  |
|  | 4 | | 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 Kenya  Asking and answering questions  Discussion the distribution of rocks  Making and taking notes | Atlas  Geological maps  Diagrams and photographs of different rocks | KLB BK1  Pg 104-106  Comprehensive BK1 Pg 134  Certificate BK1 Pg 113-114 |  |
| 13 &14 | **REVISION, EXAMINATIONS AND END OF TERM TWO, FORM ONE** | | | | | | | | |
| ***FORM ONE, THIRD TERM*** | | | | | | | | | |
| **week** | **lesson** | **topic** | | **Sub-topic** | **objectives** | **Learning activities** | **Learning aids** | **reference** | **remarks** |
| 1 | 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 rocks in Kenya | Oral exposition  Drawing diagrams of rocks  Discussing the distribution of rocks  Taking and making notes | Atlas  Geological maps  Diagrams and Photographs of different rocks | KLB BK1  Pg 104-106  Comprehensive BK1 Pg 134  Certificate BK1 Pg 113-114 |  |
|  | 2 | | 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 notes  Oral exposition  Class debating  Explaining usefulness of rocks | Sample of rocks  Teachers Guide  Student’s Book | KLB BK1  Pg 106-109  Comprehensive BK1 Pg 135  Certificate BK1 Pg 114-116 |  |
|  | 3 | | 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 environment  Identifying and classifying them | Rock samples (specimens from the field) | KLB BK1 Pg 109  Comprehensive BK1 Pg 135  Certificate BK1 Pg 116 |  |
|  | 4 | | 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 environment  Identifying and classifying them | Rock samples (specimens from the field) | KLB BK1 Pg 109  Comprehensive BK1 Pg 135  Certificate BK1 Pg 116 |  |
| 2 | 1 | | Minerals and Rocks | Practical work( viewing various types of rocks) and classifying them according to their mode of formation | By the end to the lesson, the learner should be able to:  Do practical work, identify and collect rock samples | Displaying fully labeled rock samples  Identifying types of rocks | Rock samples  Photographs of rocks  Pictures and diagrams of rocks | KLB BK1 Pg 109  Comprehensive BK1 Pg 135  Certificate BK1 Pg 116 |  |
|  | 2 | | Minerals and Rock | Assessment of assignment given in lesson 4 above | By the end of the lesson, the learner should be able to:  Correctly answer the questions asked | Tackling an exercise | Quizzes  Exercise from student’s book  Drawings  Relevant stationery | KLB BK1  Pg 109  Comprehensive BK1 Pg 136  Certificate BK1 Pg 116 |  |
|  | **3&4** | | **Revision of all topics covered in term two by group discussion** | | | | | | |
| 3 | 1 | Mining | | Definition of mining and occurrence of minerals | By the end of the lesson, the learner should be able to:  Define mining  State how minerals occur | Defining mining  Taking and making notes  Class discussion on mining | Samples of minerals  Pictures of minerals  Lesson notes | KLB BK1 Pg 110  Comprehensive BK1 Pg 137  Certificate BK1 Pg 117 |  |
|  | 2 | Mining | | Factors influencing the occurrence of minerals | By the end of the lesson, the learner should be able to  Explain factors influencing the occurrence of minerals | Oral exposition  Making and taking notes  Describing the occurrence of minerals  Identifying factors that influence mineral occurrences | Charts on minerals  Pictures and diagrams of minerals | KLB BK1  Pg 110-111  Comprehensive BK1 Pg 137-138  Certificate BK1 Pg 117 |  |
|  | 3 | Mining | | Factors influencing exploitation of minerals | By the end of the lesson, the learner should be able to:  Explain factors influencing the exploitation of minerals | Stating factors that influence mineral exploitation  Taking and making notes  Explaining terms | Photographs of minerals  Teachers Guide  Lesson notes | KLB BK1  Pg 111-112  Comprehensive BK1 Pg 138-140  Certificate BK1 Pg 118-119 |  |
|  | 4 | Mining | | Mining methods ( surface mining)/open cast mining | By the end of the lesson, the learner should be able to:  Describe surface mining as a method of mining | Describing surface mining  Taking and making notes  Classroom discussion on surface mining | Charts on surface mining  Lesson notes | KLB BK1  Pg 112-113  Comprehensive BK1 Pg 141-143  Certificate BK1 Pg 119-120 |  |
| 4 | 1 | Mining | | Methods of mining (underground mining) | By the end of the lesson, the learner should be able to:  Describe underground mining | Describing the underground mining  Taking and making notes  Listing various methods of underground mining | Charts on underground mining  Lesson notes | KLB BK1  Pg 113-115  Comprehensive BK1 Pg 143-145  Certificate BK1 Pg 119 |  |
|  | 2 | Mining | | Methods of mining  Submarine and alluvial mining | By the end of the lesson, the learner should be able to:  Describe Submarine and alluvial mining | Describing the Submarine and alluvial mining  Taking and making notes  Listing various methods of underground mining | Charts on underground mining  Lesson notes | KLB BK1  Pg 113-115  Comprehensive BK1 Pg 143-145  Certificate BK1 Pg 119 |  |
|  | 3 | 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 | Drawing a map showing the location of major minerals in Kenya  Making notes and taking them  Asking and answering questions | Atlas  Lesson notes  Geological map  Charts | KLB BK1  Pg 116-118  Comprehensive BK1 Pg 145-147  Certificate BK1 Pg 120-122 |  |
|  | 4 | 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 found  Locating the mineral sites | Atlas  Geological maps  Charts on minerals | KLB BK1  Pg 116-117  Comprehensive BK1 Pg 145-147  Certificate BK1 Pg 122-132 |  |
| 5 | 1 | 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 Kenya  Oral exposition  Asking and answering questions | Newspaper cuttings in minerals  Lesson notes  Products of minerals | KLB BK1  Pg 115-116  Comprehensive BK1 Pg 147-149  Certificate BK1 Pg 133 |  |
|  | 2 | 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 Kenya  Oral exposition  Discussion on the problems facing mining industries in Kenya | Lesson notes  Teachers guide  Student’s book | KLB BK1  Pg 118-120  Comprehensive BK1 Pg 149-153  Certificate BK1 Pg 133-137 |  |
|  | 3 | 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 Magadi  Drawing sketch  Asking and answering questions | Maps  Charts student’s book | KLB BK1  Pg 120-121  Comprehensive BK1 Pg 153-154  Certificate BK1 Pg 122-123 |  |
|  | 4 | 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 Africa  Drawing sketch diagrams  Asking and answering questions | Atlas  Lesson notes  Maps charts on Gold in S.A  Teacher’s guide | KLB BK1  Pg 121-123  Comprehensive BK1 Pg 155-157  Certificate BK1 Pg 126-128 |  |
| 6 | 1 | 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 diamonds  Drawing diagrams and sketches | Maps  Charts  Lesson notes  Student’s | KLB BK1  Pg 123-125  Comprehensive BK1 Pg 155-157  Certificate BK1 Pg 125 |  |
|  | 2 | Mining | | Problems and contributions of mining in S.A to her economy | 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 Africa  Taking and making notes  Asking and answering questions | Student’s Book  Newspaper cuttings  Films  Class notes | KLB BK1 Pg 125  Comprehensive BK1 Pg 156-159  Certificate BK1 Pg 133-136 |  |
|  | 3 | Mining | | Petroleum mining in the Middle East mode of formation, method of extraction and processing | 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 questions  Discussion on the occurrence  Making and taking notes | Teacher’s guide  Newspaper cuttings  Student’s book  Maps  :Lesson notes | KLB BK1  Pg 125-129  Comprehensive BK1 Pg 160-162  Certificate BK1 Pg 136 |  |
|  | 4 | Mining | | Petroleum mining in the Middle East  Oil in Saudi arabia | By the end of the lesson, the learner should be able to:  Describe the occurrence of petroleum and its exploitation in Saudi arabia | Asking and answering questions  Discussion on the occurrence  Making and taking notes | Teacher’s guide  Newspaper cuttings  Student’s book  Maps  :Lesson notes | KLB BK1  Pg 125-129  Comprehensive BK1 Pg 160-162  Certificate BK1 Pg 136 |  |
| 7 | 1 | Mining | | Petroleum mining in the Middle East  Oil in Iraq and iran | By the end of the lesson, the learner should be able to:  Describe the occurrence of petroleum and its exploitation in Iraq and iran | Asking and answering questions  Discussion on the occurrence  Making and taking notes | Teacher’s guide  Newspaper cuttings  Student’s book  Maps  :Lesson notes | KLB BK1  Pg 125-129  Comprehensive BK1 Pg 160-162  Certificate BK1 Pg 136 |  |
|  | 2 | Mining | | Petroleum mining in the Middle East  Oil in Kuwait and other producers | By the end of the lesson, the learner should be able to:  Describe the occurrence of petroleum and its exploitation in in Kuwait and other producers | Asking and answering questions  Discussion on the occurrence  Making and taking notes | Teacher’s guide  Newspaper cuttings  Student’s book  Maps  :Lesson notes | KLB BK1  Pg 125-129  Comprehensive BK1 Pg 160-162  Certificate BK1 Pg 136 |  |
|  | 3 | Mining | | problems facing oil industry in middle East | By the end of the lesson, the learner should be able to  Explain problems facing oil industry in middle East | Explaining the importance of petroleum to the middle East  Making notes  Discussion on the contribution of oil in the Middle East | Lesson notes  Student’s book  Teacher’s book  Pictures and photographs of industry | KLB BK1  Pg 129-131  Comprehensive BK1 Pg 162-163  Certificate BK1 Pg 137-138 |  |
|  | 4 | Mining | | Contribution of oil industry in middle East | By the end of the lesson, the learner should be able to  Explain the contribution of petroleum to economy of the Middle East | Explaining the importance of petroleum to the middle East  Making notes  Discussion on the contribution of oil in the Middle East | Lesson notes  Student’s book  Teacher’s book  Pictures and photographs of industry | KLB BK1  Pg 129-131  Comprehensive BK1 Pg 162-163  Certificate BK1 Pg 137-138 |  |
| 8 | 1and 2 | Mining | | Effects of mining to the environment | By the end of the lesson, the learner should be able to  Explain the Effects of mining to the environment | Explaining the Effects of mining to the environment  Making notes  Discussion | Lesson notes  Student’s book  Teacher’s book  Pictures and photographs of industry | KLB BK1  Pg 129-131  Comprehensive BK1 Pg 162-163  Certificate BK1 Pg 137-138 |  |
|  | 3 and 4 | Quiz on mining and revision of the topic mining | | | | | |  |  |
| 9 | 1 | earth movements | | Introduction to internal land forming processes  Earth movement  Causes of earth movements | **By the end of the lesson the learner should be able to:-**  Define earth movement  Explain causes of earth movement | Illustration  Discussion  Taking notes  Question and answer | Charts  Textbooks | Cert Geog BK 2  Pg 1-5  KLB BK 2 Pg 1-2  Golden Tips BK 2  Pg 58 |  |
|  | 2 | earth movements | | Results of earth movement | **By the end of the lesson the learner should be able to:-**  Explain five results of earth movement | Discussion  Taking notes  Question and answer | Charts  Textbooks | Cert Geog BK 2  Pg 1-5  KLB BK 2 Pg 1-2  Golden Tips BK 2  Pg 58 |  |
|  | 3 | earth movements | | The continental drift theory | **By the end of the lesson the learner should be able to:-**  Define continental drift  Draw a diagram showing continental drift | Drawing sketches  Taking notes  Question and answer | Charts  Textbooks  School atlas | Cert Geog BK 2  Pg 6-8  KLB BK 2 Pg 3-4  Golden Tips BK 2  Pg 59 |  |
|  | 4 | earth movements | | Plate tectonic | **By the end of the lesson the learner should be able to:-**  Define plate tectonic  Explain causes of plate tectonic |  | Charts  Textbooks  Black wall | Cert Geog BK 2  Pg 6-8  KLB BK 2 Pg 3-4  Golden Tips BK 2  Pg 58 |  |
| **10&**  **11** | **1-8** | **END OF YEAR EXAMS AND REVISION** | | | | | | | |