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|  |  | SCHEME OF WORK FORM ONE GEOGRAPHY TERM ONE 2019 |  |
|  WK**NO** | L/**NO** | TOPIC /**SUBTOPIC** | **LESSON / SPECIFIC**OBJECTIVES | **TEACHING / LEARNING**ACTIVITIES | ***MATERIALS******/******RESOURCES*** | REF. | REM. |
| 1-2 |  | SELECTION OF FORM ONE STUDENTS |  |  |  |
| 3 | 1 | INTRODUCTION  TO  GEOGRAPHYDefinition of Geography and environment. | By the end of the lesson, the learner should be able to:Define the terms Geography and environment.Explain what the study of Geography entails. | Brainstorming, Oral questions;Brief discussion. |  | KLB BK IPg 1 |  |
| 2 | Branches of Geography. | Identify the branches of Geography. | Exposition & discussion on major areas covered in Physical Geography, Economic Geography & Practical Geography.  |  | KLB BK IPg 2 |  |
| 3 | Importance of studying Geography. | Explain importance of studying Geography. | Detailed discussion on importance of knowledge, skills, positive values and attitudes gained in course of studying Geography. |  | KLB BK IPg 2-3 |  |
| 4 | 1 | Relationship between Geography and other Disciplines. | Explain the relationship between Geography and other disciplines. | Teacher explains contextual meaning of the term discipline.Oral questions to elicit definitions of history, physics, chemistry, agriculture, economics, etc.Brief discussion on interdependence of disciplines.  | *Chart: relationship between Geography and other disciplines.* | KLB BK IPg 3-4 |  |
|  | 2 | Careers related to Geography. | Identify careers related to Geography. | Open discussion on careers related to Geography. | *Career booklet.* | KLB BK IPg 3-4 |  |
| 3 | THE EARTH AND THE SOLAR SYSTEM.Composition of the Solar System. | Give the meaning of solar system.Describe the composition of solar system. | Exposition of facts related to the heavenly bodies, planets and other celestial bodies. | *Chart: the solar system & their relative sizes.* | KLB BK IPg 7 |  |
| 5 | 1 | The origin of the solar system. | Explain theories put forward to explain the origin of the earth. | Exposition of new concepts;Brief description. |  | KLB BK IPg 7-8 |  |
| 2 | Other heavenly bodies. | List down other heavenly bodies. | Exposition & brief description. |  | KLB BK IPg 9-12 |  |
| 3 | The origin and size of the earth. | Advance postulates about origin and size of the earth.Give reasons why the interior of the earth is known to be very hot. | Brain storming;Exposition of factual information. |  | KLB BK IPg 12-13 |  |
| 6 |  | Mid term |  |  |  |  |  |
| 7 | 1 | The shape of the earth. | Outline proofs that the earth is spherical. | Brief discussion & illustrations. | *Chart: mathematical data for planet earth.* | KLB BK IPg 13-15 |  |
| 2 | The rotation of the earth on its axis. | Explain effects of rotation of the earth on its axis. | Brainstorming, oral questions and brief discussion on rotational movement of the earth and its effects. | *The globe.* | KLB BK IPg 17-18 |  |
| 3 |  SHORT TEST |  |  |  |  |  |
| 8 | 1 | Local time. | Calculate local time using longitudes.Calculate the longitude of a place using local time. | Q/A: review the terms local time, GMT and direction of rotation of the earth.Work through examples.Supervised practice.Written assignment. |  | KLB BK IPg 18 |  |
| 2 | Time zones and the International Date Line. | Explain the importance of the concept *time zone.*Explain the effects of crossing the International date line on time zones. | Locate I.D.L. on the globe;Brief discussion with probing questions. | *The globe.* | KLB BK IPg 18 |  |
| 3 | The revolution of the earth round the sun. | Describe effects of revolution of the earth round the sun. | Exposition & detailed discussion on revolutionary movement of the earth. |  | KLB BK IPg 19 |  |
| 9 | 1 | Eclipses. | Explain occurrence of eclipses.Differentiate between eclipse of the sun and eclipse of the moon. | Probing questions;Drawing illustrative diagrams.Brief discussion. | *Charts-**Solar eclipse,**Annular solar eclipse,**Lunar eclipse.* | KLB BK IPg 20-21 |  |
|  | 2 | The structure of the earth. | Describe internal and external structure of the earth.  | Expository and descriptive approaches. | *Model of the internal earth structure.* | KLB BK IPg 22-23 |  |
| 3 | WEATHERDefinition and elements of weather.Temperature. | Define the term weather.List down the elements of weather.Define the term temperature.Outline factors affecting air temperature. | Brain storming;Brief discussion. |  | Pg 24-25 |  |
| 10 | 1 | Humidity & Precipitation. | Differentiate between absolute and relative humidity.Outline factors affecting humidity.Identify forms of precipitation. | Exposition;Probing questions;Brief discussion. |  | KLB BK IPg 26-27 |  |
| 2 | Rainfall. | Describe rainfall as a form of precipitation.Outline types of rainfall. | Probing questions;Drawing illustrative diagrams.Brief discussion. |  | KLB BK IPg 27-29 |  |
| 3 | Clouds. | Identify types of clouds. | Exposition and explanations;Drawing illustrative diagrams. |  | KLB BK IPg 31-32 |  |
| 11 | 1 | Atmospheric pressure & winds. | Explain factors influencing atmospheric pressure.Differentiate between anabatic and katabatic winds.Outline factors influencing wind direction. Explain the role of wind as a medium of heat and moisture transfer. | Probing questions;Drawing illustrative diagrams of land and sea breezes;Exposition of new concepts;Brief discussion. |  | KLB BK IPg 29-30 |  |
| 2-3 | Weather station. | List down instruments used in a weather station.Identify factors taken into account when siting a weather station. | Q/A: definition of the term weather;Brief discussion on elements of weather;Oral questions & brief discussion;Visit a weather station. |  | KLB BK IPg 32-33 |  |
| 12 | 1 | Measuring temperature. | Identify thermometric liquids used in thermometers.Calculate mean daily temperature and diurnal range of temperature given maximum and minimum daily temperatures. | Oral questions.Problem solving. | *Six’s Maximum & minimum thermometers.* | KLB BK IPg 34-36 |  |
| 2 | Measuring rainfall. | Work out calculations related to rainfall.Draw graphs showing distribution of rainfall. | Simple problem solving.Drawing graphs for monthly annual rainfall. | Rainfall charts. | KLB BK IPg 37 |  |
| 3 | Measuring atmospheric pressure. | Identify features of a mercury barometer and the aneroid barometer. | Expository & descriptive approaches, and oral questions. |  | KLB BK IPg 37 |  |
| 13 | 1 | Wind direction and intensity. | Identify instruments used to determine wnd direction and intensity. | Oral questions;Drawing a wind vane and a wind sock;Brief discussion. |  | KLB BK IPg 39 |  |
| 2 | The atmosphere. | Describe the zones of the atmosphere. | Expository & descriptive approaches. |  | KLB BK IPg 41-42 |  |
| 3 | Weather forecasting. | Outline the importance of weather forecasting to humankind. | Q/A & brief discussion. |  | KLB BK IPg 41-42 |  |
| 14 | 1 | Factors influencing weather. | Highlight factors influencing weather. | Probing questions;Exposition of new concepts;Brief discussion. |  | KLB BK IPg 45-46 |  |
| 2,3 | Fieldworkon weather. | Observe and record various weather conditions. | Fieldwork: Making observations;Collecting data;Conducting interviews;Taking photographs. |  | KLB BK IPg 46-47 |  |
|  |  | END OF FIRST TERM EXAMS |  |

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|  |  | SCHEME OF WORK FORM ONE GEOGRAPHY TERM TWO 2019 |  |
|  WK**NO** | L/**NO** | TOPIC /**SUBTOPIC** | **LESSON / SPECIFIC**OBJECTIVES | **TEACHING / LEARNING**ACTIVITIES | ***MATERIALS******/******RESOURCES*** | REF. | REM. |
| 1 | 1,2 | STATISTICAL METHODS.Meaning and significance of statistics. Types, nature and sources of statistical data. | Define the term statistics.Explain the significance of statistics in enhancing the study of geography.Identify types, nature and sources of statistical data. | Q/A & brief discussion.Exposition of new concepts & discussion. |  | KLB BK IPg 449-50 |  |
| 3 | Collecting statistical data.-*Questionnares.* | Identify types of questionnaires.State advantages and disadvantages of using questionnaires. | Probing questions & explanations. | *Sample questionnaires.* | KLB BK IPg 50-51 |  |
| 2 | 1 | Collecting statistical data.-*Interviews and observations.* | State advantages and disadvantages of using interviews and observations to gather data. | Simulations;Probing questions & explanations. |  | KLB BK IPg 51-52 |  |
| 2 | Collecting statistical data.-O*ther methods* | Describe other methods of collecting data. | Discussion on taking measurements, sampling and content analysis. | *Grid square for sampling.* | KLB BK IPg 53-54 |  |
| 3 | Recording data. | Describe methods and techniques of recording statistical data. | Probing questions, discussion. |  | KLB BK IPg 55-57 |  |
| 3 | 1 | Statistical data analysis. | Analyse statistical data correctly.  | Discussion on organizing data;Identifying highest and lowest values.Supervised practice.Written assignment. |  | KLB BK IPg 57-59 |  |
| 2 | Measures of central tendency and measures of dispersion.  | Find range, mean, mode and median of data. | Calculations: range, proportions, percentages, mean, median & mode. |  | KLB BK IPg 57-59 |  |
| 3 | Statistical data presentation in tables. | Present statistical data in tabular form.Merits & demerits of using statistical tables. | Give examples of statistical data in tabular form; e.g. rainfall of a place.Oral questions & brief discussion. |  | KLB BK IPg 61 |  |
| 4 | 1 | Simple line graph. | Identify independent and dependent variables and plot them on the correct axes.Construct a simple line graph. | Guided practical activity: drawing a simple line graph. | Graph papers. | KLB BK IPg 60-62 |  |
| 2 | Simple line graph. | Interpret a simple line graph.State merits & demerits of using simple line graphs. | Make inferences;Brief discussion. |  | KLB BK IPg 60-62 |  |
| 3 | Simple bar graph. | Construct and interpret a simple bar graph.State merits & demerits of using simple bar graphs. | Guided practical activity: drawing a simple bar graph.Oral questions and brief discussion. | Graph papers. | KLB BK IPg 62-63 |  |
| 5 | 1 | Combined line graph and bar graph.(polygraph) | Construct and interpret combined line graph and bar graph (polygraph).State merits & demerits of using simple line graphs. | Guided practical activity: drawing combined line graph and bar graph (polygraph).Oral questions and brief discussion.Written exercise. | Graph papers. | KLB BK IPg 63-64 |  |
| 2 | Simple wind rose. | State merits & demerits of using a wind rose.Construct and make use of a simple wind rose. | Brief discussion.Group activity (Assignment): construction of a simple wind rose.  |  | KLB BK IPg 64-65 |  |
| 3 | TEST |  |  |  |  |
| 6 | 1 | MAPS AND MAP WORKMaps, plans and pictures. | Q/A: make a distinction between maps and plans, maps and pictures. | Practical activity: drawing plan of a classroom, etc.Brief discussion on differences between maps, plans and pictures. |  | KLB BK IPg 66-69 |  |
| 2 | Sketch maps. | Identify characteristics of a good sketch.Sketch maps stating specific information. | Practical activity: drawing sketch maps. |  | KLB BK IPg 69 |  |
| 3 | Atlas maps. | Give examples of atlas maps.Interpret atlas maps. | Oral questions, brief discussion. | Atlases. | KLB BK IPg 69 |  |
| 7 | 1 | Topographic maps. | Identify features on topographic maps. | Guided practical activity:Identifying physical and human features on maps. | Topographic maps. | KLB BK IPg 69-70 |  |
| 2 | Uses of maps. | State uses of maps. | Q/A and brief discussion. |  | KLB BK IPg 69 |  |
| 3 | Marginal information on a map. | Identify and use marginal information on maps. | Guided activities: Identifying marginal information.  | Topographical maps. | KLB BK IPg 71-72 |  |
| 8 | 1 | Map scales. | Define a scale.Identify types of scales.Express a scale in another format. | Brainstorming, brief discussion, problem solving. | Topographical maps. | KLB BK IPg 73-76 |  |
| 2 | Measuring distances on maps. | Measure distances on maps accurately.  | Guided practical activities:Measuring distances accurately by using various methods. | Topographical maps, pair of dividers, thread. | KLB BK IPg 76-78 |  |
| 3 | Calculation of area on maps. | Calculate area on a map. | Guided practical activities involving area. | Topographical maps. | KLB BK IPg 79-80 |  |
| 9 | 1 | FIELDWORKDefinition of field work, types and importance of fieldwork. | Define the term fieldwork.Identify types of fieldwork.Explain importance of fieldwork to geographers. | Probing questions & brief discussion. |  | KLB BK IPg 82-83 |  |
| 2,3 | Fieldwork procedure. | Describe fieldwork procedure. | Brain storming;Probing questions on steps followed during fieldwork.Detailed discussion. |  | KLB BK IPg 83-84 |  |
| 10 | 1 | Hypothesis. | Outline characteristics of a good hypothesis.Formulate a hypothesis. | Exposition of new concept;Oral exercise on formulation of hypotheses. |  | KLB BK IPg 84-85 |  |
| 10 | 2 | Reconnaissance. | State the purpose of a reconnaissance. | Exposition of new concept;Brief discussion. |  | KLB BK IPg 87 |  |
| 3 | Preparations before fieldwork. | Highlight preparations required before carrying out of fieldwork. | Q/A & open discussion.  |  | KLB BK IPg 85 |  |
| 11 | 1,2 | Methods data of collection. | Outline various methods of data collection.Identify specific methods for given types of field study.State merits & demerits of each method. | Q/A to review methods of data collection;Brief discussion. | Necessary equipment. | KLB BK IPg 87 |  |
| 3 | Problems likely to be encountered in the field during fieldwork. | Predict problems that are likely to be encountered in the field in course of fieldwork. | Brainstorming & brief open discussion. |  | KLB BK IPg 88 |  |
| 12-13 |  | End of term two exams |  |

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|  | SCHEME OF WORK FORM ONE GEOGRAPHY TERM THREE 2019 |  |
|  WK**NO** | L/**NO** | TOPIC /**SUBTOPIC** | **LESSON / SPECIFIC**OBJECTIVES | **TEACHING / LEARNING**ACTIVITIES | ***MATERIALS******/******RESOURCES*** | REF. | REM. |
| 1 | 1-2 | Actual field study. | Conduct a field study. | Identify the problem and objectives;Prepare for the study;Visit the area of study;Gather data using suitable methods. | Questionnaires,Cameras, labels, etc. | KLB BK IPg 88-92 |  |
| 3 | Interpretation of data collected. | Analyse the collected data. | Synthesise the data collected;Plot relevant graphs;Answer questions. |  | KLB BK IPg 88-92 |  |
| 2 | 1 | MINERALS AND ROCKSCharacteristics of minerals. | List down characteristics of minerals. | Q/A: list down examples of minerals.Brief discussion of their general characteristics. |  | KLB BK IPg 94-96 |  |
| 2 | Igneous rocks. | Describe formation of igneous rocks.Differentiate between intrusive and extrusive igneous rocks.Give examples of igneous rocks. | Brief discussion.Exposition & detailed discussion. |  | KLB BK IPg 96-99 |  |
| 3 | Sedimentary rocks. | State characteristics of sedimentary rocks.Give examples of sedimentary rocks formed in different ways. | Exposition of factual information;Detailed discussion. |  | KLB BK IPg 99-100 |  |
| 3 | 1 | Formation of sedimentary rocks. | Describe formation of sedimentary rocks. |  |  | KLB BK IPg 100-2 |  |
| 2 | Metamorphic rocks. | Describe forms of metamorphism that lead to formation of metamorphic rocks. | Exposition & detailed discussion. | Chart: match original and metamorphic rocks. | KLB BK IPg 102 |  |
| 3 | Distribution of rocks in Kenya. | Account for the distribution of rocks in Kenya. | Descriptive approach.Examine a map showing distribution of rocks. |  | KLB BK IPg 104-6 |  |
| 4 | 1 | Significance of rocks and minerals. | Explain the significance of minerals and rocks to mankind. | Brain storming;Q/A & brief discussion. |  | KLB BK IPg 107-8 |  |
| 2,3 | Fieldwork on rocks. | Carry out a fieldwork study on rocks. | Collect, examine and classify rocks.Answer related problems. |  | KLB BK IPg 109-110 |  |
| 5 | 1 | MININGOccurrence of rocks. | Describe occurrence of minerals in various forms. | Exposition and descriptive approaches. |  | KLB BK IPg 110-111 |  |
| 2 | Exploitation of minerals. | Explain factors affecting exploitation of minerals. | Probing questions & brief discussion. |  | KLB BK IPg 111-2 |  |
| 3 | Methods of mining. | Describe various methods of mining. | Exposition of new concepts.Brief discussion. |  | KLB BK IPg 112-3 |  |
| 6 |  1 | Methods of mining. (ontd) | Describe various methods of mining. | Exposition of new concepts.Brief discussion. |  | KLB BK IPg 113-4 |  |
| 6 | 2 | Types of minerals. | Give examples of metallic, non-metallic and energy minerals. | Brief discussion. |  | KLB BK IPg 116 |  |
| 3 | Distribution of minerals in East Africa. | Locate major mineral sites on the map of East Africa. | Draw the map of East Africa and locate major mineral sites. | Map of East Africa showing distribution of minerals. | KLB BK IPg 116-7 |  |
| 7 | 1 | CAT. |  |  |  |  |  |
| 2 | Significance of minerals in Kenya. | Outline ways in which Kenya has benefited from exploitation of minerals. | Probing questions & brief discussion. |  | KLB BK IPg 115 |  |
| 3 | Problems of mining in Kenya. | Identify problems facing mining industry in Kenya. | Q/A & brief discussion. |  | KLB BK IPg 118 |  |
| 8 | 1 | Effects of mining on the environment. | Explain adverse effects of mining on the environment. | Q/A & brief open discussion |  | KLB BK IPg 118-9 |  |
| 2.3 | Trona on Lake Magadi. | Describe the occurrence, exploitation and processing of trona on Lake Magadi. | Exposition & descriptive approaches.Assignment.  |  | KLB BK IPg 120 |  |
| 9 | 1,2 | Diamond in South Africa. | Describe distribution and exploitation of gold and diamond in South Africa.  | Exposition & descriptive approaches.  |  | KLB BK IPg 121 |  |
| 3 | Gold in South Africa. | Describe distribution and exploitation of gold and diamond in South Africa. Highlight problems encountered during exploitation of gold in South Africa. | Exposition;Brief discussion. |  | KLB BK IPg 123-4 |  |
| 10 | 1,2 | Petroleum in the Middle East.-Iraq & Iran | Describe oil distribution and exploitation of petroleum in the middle East. | Exposition & descriptive approaches.Assignment.  |  | KLB BK IPg 125 |  |
| 31 | Petroleum in the Middle East.-Kuwait & Saudi Arabia. | Describe oil distribution and exploitation of petroleum in the middle East. | Exposition & descriptive approaches.Assignment.  |  | KLB BK IPg 126 |  |
| 11 | 2-3 | Problems facing petroleum industry. | Highlight major problems facingpetroleum industry.  |  |  | KLB BK IPg 127 |  |
| 12-13 |  | SUMMATIVE ASSESSMENT TEST |  |