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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 | | INTRODUCTIONTOGEOGRAPHY Definition 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 3-4 | |  | |
|  | | 2 | | Careers related to Geography. | | Identify careers related to Geography. | Open discussion on careers related to Geography. | | | *Career booklet.* | | KLB BK I  Pg 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 I  Pg 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 I  Pg 7-8 | |  | |
| 2 | | Other heavenly bodies. | | List down other heavenly bodies. | Exposition & brief description. | | |  | | KLB BK I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 22-23 | |  | |
| 3 | | WEATHER Definition 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 I  Pg 26-27 | |  | |
| 2 | | Rainfall. | | Describe rainfall as a form of precipitation.  Outline types of rainfall. | Probing questions;  Drawing illustrative diagrams.  Brief discussion. | | |  | | KLB BK I  Pg 27-29 | |  | |
| 3 | | Clouds. | | Identify types of clouds. | Exposition and explanations;  Drawing illustrative diagrams. | | |  | | KLB BK I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 37 | |  | |
| 3 | | Measuring atmospheric pressure. | | Identify features of a mercury barometer and the aneroid barometer. | | | Expository & descriptive approaches, and oral questions. |  | | KLB BK I  Pg 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 I  Pg 39 | |  | |
| 2 | | The atmosphere. | | Describe the zones of the atmosphere. | | | Expository & descriptive approaches. |  | | KLB BK I  Pg 41-42 | |  | |
| 3 | | Weather forecasting. | | Outline the importance of weather forecasting to humankind. | | | Q/A & brief discussion. |  | | KLB BK I  Pg 41-42 | |  | |
| 14 | | 1 | | Factors influencing weather. | | Highlight factors influencing weather. | | | Probing questions;  Exposition of new concepts;  Brief discussion. |  | | KLB BK I  Pg 45-46 | |  | |
| 2,3 | | Fieldwork on weather. | | Observe and record various weather conditions. | | | Fieldwork:  Making observations;  Collecting data;  Conducting interviews;  Taking photographs. |  | | KLB BK I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 53-54 |  |
| 3 | Recording data. | Describe methods and techniques of recording statistical data. | Probing questions, discussion. |  | KLB BK I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 64-65 |  |
| 3 | TEST | |  |  |  |  |
| 6 | 1 | MAPS AND MAP WORK Maps, 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 I  Pg 66-69 |  |
| 2 | Sketch maps. | Identify characteristics of a good sketch.  Sketch maps stating specific information. | Practical activity: drawing sketch maps. |  | KLB BK I  Pg 69 |  |
| 3 | Atlas maps. | Give examples of atlas maps.  Interpret atlas maps. | Oral questions, brief discussion. | Atlases. | KLB BK I  Pg 69 |  |
| 7 | 1 | Topographic maps. | Identify features on topographic maps. | Guided practical activity:  Identifying physical and human features on maps. | Topographic maps. | KLB BK I  Pg 69-70 |  |
| 2 | Uses of maps. | State uses of maps. | Q/A and brief discussion. |  | KLB BK I  Pg 69 |  |
| 3 | Marginal information on a map. | Identify and use marginal information on maps. | Guided activities: Identifying marginal information. | Topographical maps. | KLB BK I  Pg 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 I  Pg 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 I  Pg 76-78 |  |
| 3 | Calculation of area on maps. | Calculate area on a map. | Guided practical activities involving area. | Topographical maps. | KLB BK I  Pg 79-80 |  |
| 9 | 1 | FIELDWORK Definition 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 I  Pg 82-83 |  |
| 2,3 | Fieldwork procedure. | Describe fieldwork procedure. | Brain storming;  Probing questions on steps followed during fieldwork.  Detailed discussion. |  | KLB BK I  Pg 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 I  Pg 84-85 |  |
| 10 | 2 | Reconnaissance. | State the purpose of a reconnaissance. | Exposition of new concept;  Brief discussion. |  | KLB BK I  Pg 87 |  |
| 3 | Preparations before fieldwork. | Highlight preparations required before carrying out of fieldwork. | Q/A & open discussion. |  | KLB BK I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 88-92 |  |
| 3 | Interpretation of data collected. | Analyse the collected data. | Synthesise the data collected;  Plot relevant graphs;  Answer questions. |  | KLB BK I  Pg 88-92 |  |
| 2 | 1 | MINERALS AND ROCKS Characteristics of minerals. | List down characteristics of minerals. | Q/A: list down examples of minerals.  Brief discussion of their general characteristics. |  | KLB BK I  Pg 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 I  Pg 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 I  Pg 99-100 |  |
| 3 | 1 | Formation of sedimentary rocks. | Describe formation of sedimentary rocks. |  |  | KLB BK I  Pg 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 I  Pg 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 I  Pg 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 I  Pg 107-8 |  |
| 2,3 | Fieldwork on rocks. | Carry out a fieldwork study on rocks. | Collect, examine and classify rocks.  Answer related problems. |  | KLB BK I  Pg 109-110 |  |
| 5 | 1 | MINING Occurrence of rocks. | Describe occurrence of minerals in various forms. | Exposition and descriptive approaches. |  | KLB BK I  Pg 110-111 |  |
| 2 | Exploitation of minerals. | Explain factors affecting exploitation of minerals. | Probing questions & brief discussion. |  | KLB BK I  Pg 111-2 |  |
| 3 | Methods of mining. | Describe various methods of mining. | Exposition of new concepts.  Brief discussion. |  | KLB BK I  Pg 112-3 |  |
| 6 | 1 | Methods of mining. (ontd) | Describe various methods of mining. | Exposition of new concepts.  Brief discussion. |  | KLB BK I  Pg 113-4 |  |
| 6 | 2 | Types of minerals. | Give examples of metallic, non-metallic and energy minerals. | Brief discussion. |  | KLB BK I  Pg 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 I  Pg 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 I  Pg 115 |  |
| 3 | Problems of mining in Kenya. | Identify problems facing mining industry in Kenya. | Q/A & brief discussion. |  | KLB BK I  Pg 118 |  |
| 8 | 1 | Effects of mining on the environment. | Explain adverse effects of mining on the environment. | Q/A & brief open discussion |  | KLB BK I  Pg 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 I  Pg 120 |  |
| 9 | 1,2 | Diamond in South Africa. | Describe distribution and exploitation of gold and diamond in South Africa. | Exposition & descriptive approaches. |  | KLB BK I  Pg 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 I  Pg 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 I  Pg 125 |  |
| 3 1 | 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 I  Pg 126 |  |
| 11 | 2-3 | Problems facing petroleum industry. | Highlight major problems facingpetroleum industry. |  |  | KLB BK I  Pg 127 |  |
| 12-13 |  | SUMMATIVE ASSESSMENT TEST | | | | |  |