

|       |       | FORM ONE BIOLOGY                                             |                                                                                            | TERM ONE YEAR 20.....                                                                                                                                  |                                                     |                         |         |
|-------|-------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|---------|
| WK NO | L/ NO | TOPIC/ SUBTOPIC                                              | LESSON / SPECIFIC OBJECTIVES                                                               | TEACHING / LEARNING ACTIVITIES                                                                                                                         | RESOURCES / MATERIALS                               | REF.                    | REMARKS |
| 5     | 1     | <b>INTRODUCTION TO BIOLOGY</b><br><br>Definition of Biology. | <b><u>By the end of the lesson, learners should be able to:</u></b><br><br>Define Biology. | Brainstorming to elicit responses on what science is all about. Discussion on nature, science and living things; leading to the definition of Biology. |                                                     | KLB BOOK I<br>Page 1    |         |
|       | 2     | Branches of Biology                                          | Identify the two main branches of Biology. Name smaller branches of Biology.               | Probing questions; Exposition of new terms.                                                                                                            |                                                     | KLB BOOK I<br>Page 1    |         |
|       | 3     | Importance of Biology.                                       | Identify ways in which studying Biology is useful.                                         | Open discussion on scientific knowledge acquired by learners, relevant courses, careers, emerging issues, e.g. AIDS.                                   | List of professions related to Biology.             | KLB BOOK I<br>Page 1    |         |
|       | 4     | Characteristics of living things.                            | Give characteristics of living things.                                                     | Q/A and exposition of new concepts.                                                                                                                    |                                                     | KLB BOOK I<br>Pages 2-3 |         |
| 6     | 1     | Laboratory apparatus for collecting specimens.               | Identify common laboratory apparatus for collecting specimens.                             | Collecting and examining specimens.                                                                                                                    | Forceps, hand lenses, sweep nets, specimen bottles. | KLB BOOK I<br>Pages 3-5 |         |

|   |     |                                                                                  |                                                                                              |                                                                                                                            |                                                            |                           |  |
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|   | 2   | Procedure for collecting specimens.                                              | Outline the procedure for collecting specimens for study in the laboratory.                  | Teacher explains the procedure for collecting lab specimens, citing the precautions to be observed.                        |                                                            | KLB BOOK I<br>Pages 5-6   |  |
|   | 3,4 | Collecting laboratory specimens.                                                 | Collect and observe various laboratory specimens.                                            | Collecting specimens and observing them.                                                                                   | <i>Forceps, hand lenses, sweep nets, specimen bottles.</i> | Lab manual.               |  |
| 7 | 1   | <b>CLASSIFICATION I</b><br><br>Introduction<br><br>Magnification of a hand lens. | Explain the rationale of classifying organisms.<br>Obtain the magnification of a hand lens.  | Q/A and discussion.<br>Drawing magnified objects and obtaining the magnification.                                          | <i>Diagrams of animals<br/>Hand lenses.</i>                | KLB BOOK I<br>Page 8      |  |
|   | 2   | External features of animals.                                                    | Identify external features of animals.                                                       | Q/A and brief discussion.<br>Examine external features of animals.                                                         | <i>Diagrams of animals, preserved animal specimens.</i>    | KLB BOOK I<br>Pages 9-13  |  |
|   | 3,4 | External features of plants.                                                     | Identify external features of plants.                                                        | Q/A and brief discussion.<br>Examine external features of plants such as roots, venation, stems                            | <i>Diagrams and specimens of plants, hand lenses.</i>      | KLB BOOK I<br>Pages 9-13  |  |
| 8 | 1   | Importance of classification.<br><br>Taxonomic units of classification.          | Explain the importance of classification.<br><br>Identify taxonomic units of classification. | Q/A and brief discussion.<br>Exposition of new terms related to taxonomy.<br>Illustrate relative sizes of taxonomic units. | <i>Chart- diversity of organisms.</i>                      | KLB BOOK I<br>Pages 10-14 |  |
|   | 2   | Kingdoms of organisms.<br><br>Species.                                           | Identify the five kingdoms of classification.<br><br>Define a species.                       | Expository approach of new concepts.<br>Q/A on differences exhibited within a species.                                     |                                                            | KLB BOOK I<br>Pages 14-15 |  |

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|    | 3,4 | Scientific naming system of organisms.                          | Explain the principles of binomial nomenclature.<br><br>Identify the genus name and specific name of an organism. | Detailed discussion on scientific naming system.<br><br>Oral and written exercises.     |                                                               | KL B BOOK I<br>Pages 15-17 |  |
| 9  | 1   | <b>THE CELL</b><br><br>Definition of a cell.                    | Define a cell.<br>Differentiate between unicellular and multicellular organisms.                                  | Q/A, expositions and explanations.                                                      |                                                               | KL B BOOK I<br>Pages 14-15 |  |
|    | 2   | <b>The microscope.</b><br><br>Parts of a microscope.            | Draw and label a microscope.<br>State the function of each part of a microscope.                                  | Drawing and labeling.<br>Discussion on functionality of a microscope.                   | <i>A light microscope and an illustrative chart.</i>          | KL B BOOK I<br>Pages 18-19 |  |
|    | 3,4 | Handling and using the microscope.                              | Demonstrate proper skills of handling the microscope.<br>State precautions observed when handling a microscope.   | Teacher demonstrations and explanations.<br>Supervised handling of the microscope.      | <i>Light microscopes.</i>                                     | KL B BOOK I<br>Pages 19-20 |  |
| 10 | 1,2 | Magnification of a microscope.                                  | Define magnification of a microscope.<br>Calculate the magnification of a microscope.                             | Q/A to review relevant familiar terms.<br>Complete a table of magnifications.           | <i>Objective and eye piece lenses.</i>                        | KL B BOOK I<br>Page 21     |  |
|    | 3,4 | Plant and animal cells under a light (and electron) microscope. | Draw diagrams of plant and animal cells as observed under a light microscope.                                     | Observe permanent slides under a light microscope.<br>Draw and label diagrams of cells. | <i>Permanent slides of cheek cells, epidermal cells, etc.</i> | KL B BOOK I<br>Pages 21-23 |  |

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| 11 | 1, 2 | Cell organelles.                    | Draw various cell organelles.<br>State the functions of various cell organelles.<br>State differences between animal and plant cells.<br>Identify similarities between the two. | Exposition of new concepts.                                                                                                                                         |                                                                                                   | KLB BOOK I<br>Pages 23-26 |  |
|    | 3,4  | Preparing slides.                   | Prepare and observe temporary slides                                                                                                                                            | Teacher guides students to prepare onion cells, observe them under a microscope.<br>Drawing and labeling of observed diagrams.                                      | <i>Microscope, Microscope slides, cover slips, onion bulb, forceps, dropper.</i>                  | KLB BOOK I<br>Page 27     |  |
| 12 | 1    | Preparing stained slides.           | Prepare and observe stained slides                                                                                                                                              | Teacher guides students to prepare epidermal strips and observe them under a microscope.<br>Drawing and labeling of observed diagrams.                              | <i>Microscope, Microscope slides, cover slips, onion bulb, forceps, dropper, iodine solution.</i> | KLB BOOK I<br>Page 27     |  |
|    | 2    | Field of view of a microscope.      | Relate mm, cm, $\mu$ m as units of length.<br>Estimate the diameter of field of view of the low power of the objective lens.                                                    | Q/A on inter conversion of metric units.<br>Use low power to focus on the mm scale of a ruler, then deduce the diameter of the field of view.                       | <i>Millimetre scale, low power objective lens.</i>                                                | KLB BOOK I<br>Page 28     |  |
|    | 3,4  | Estimating size of a cell.          | Estimate the diameter of an onion cell.                                                                                                                                         | Use low power to focus on the mm scale of a ruler, then deduce the diameter of the field of view. Count the number of cells per mm, then deduce the size of a cell. | <i>Prepared slide of onion epidermis, microscope, ruler.</i>                                      | KLB BOOK I<br>Page 27     |  |
| 13 |      | <b>END OF TERM ONE EXAMINATIONS</b> |                                                                                                                                                                                 |                                                                                                                                                                     |                                                                                                   |                           |  |

|        |       | FORM ONE BIOLOGY                                                     |                                                                                                                                                  | TERM TWO YEAR 20.....                                                                 |                                                             |                           |         |
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| WK /NO | L/ NO | TOPIC / SUBTOPIC                                                     | LESSON OBJECTIVES                                                                                                                                | TEACHING / LEARNING ACTIVITIES                                                        | RESOURCES / MATERIALS                                       | REF                       | REMARKS |
| 1      | 1     | Cell specialization.                                                 | Define cell specialization.<br>Give examples of special cells.                                                                                   | Draw and label special cells.<br>Brief discussion.                                    | Chart - specialized cells.                                  | KLB BOOK I<br>Pages 28-29 |         |
|        | 2     | Tissues in animals.                                                  | Define a tissue.<br>Describe various tissues in animals.                                                                                         | Exposition of new concepts.<br>Drawing and labeling tissues.                          | Illustrative charts.                                        | KLB BOOK I<br>Page 29     |         |
|        | 3     | Tissues in plants.                                                   | Describe various tissues in plants.                                                                                                              | Exposition of new concepts.<br>Drawing and labeling plant tissues.                    | Illustrative charts.                                        | KLB BOOK I<br>Pages 30-31 |         |
|        | 4     | Organs systems.                                                      | Define an organ.<br>Give examples of organ systems.                                                                                              | Probing questions and detailed discussion.                                            | Illustrative charts.                                        | KLB BOOK I<br>Page 31     |         |
| 2      | 1,2   | <b>CELL PHYSIOLOGY</b><br>The cell membrane structure and properties | Define cell physiology.<br>Identify functions of cell structures.<br>Draw and label the cell membrane.<br>State properties of the cell membrane. | Probing questions and detailed discussion.<br>Drawing and labeling the cell membrane. | Illustrative charts.                                        | KLB BOOK I<br>Pages 32-33 |         |
|        | 3-4   | Diffusion as a physiological process.                                | Define diffusion.<br>Describe simple experiments to demonstrate diffusion.<br>Explain the role of diffusion in living organisms.                 | Q/A, teacher demonstrations and discussion.                                           | KMnO <sub>4</sub> crystals or flower dyes or smoke chamber. | KLB BOOK I<br>Pages 33-35 |         |

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| 3 | 1,2 | Rate of diffusion.                  | Explain how various factors affect the rate of diffusion.                                                      | Probing questions and discussion on diffusion gradient, surface area-volume ratio, thickness of membrane, size of molecule and temperature. | <i>Cubes of various dimensions.</i>                                         | KLB BOOK I<br>Page 31     |  |
|   | 3   | Osmosis as a physiological process. | Define osmosis. Describe experiments to demonstrate osmosis.                                                   | Group experiments and discussion.                                                                                                           | <i>Illustrative chart: semi permeable membrane.</i>                         | KLB BOOK I<br>Pages 36-40 |  |
|   | 4   | Osmotic terms.                      | Describe solutions using biological terms.                                                                     | Exposition of new terms, isotonic and hypertonic solutions.                                                                                 |                                                                             |                           |  |
| 4 | 1,2 | Osmosis in plants.                  | Describe experiments to show osmosis in plants.                                                                | Brief discussion and exposition. Examine osmosis in living cells, e.g. onion skin cells.                                                    | <i>Onion skin / irish potato, slides, forceps, common salt, microscope.</i> |                           |  |
|   | 3,4 | Role of osmosis in plants.          | Explain the role of osmosis in plants.                                                                         | Q/A and guided discussion.                                                                                                                  |                                                                             | KLB BOOK I<br>Page 41     |  |
| 5 | 1   | Osmosis in animals.                 | Describe water relations in animals. Describe role of osmosis in animals. Explain factors that affect osmosis. | Exposition of new terms with probing questions.                                                                                             |                                                                             | KLB BOOK I<br>Pages 42-43 |  |
|   | 2   | Role of osmosis in animals.         |                                                                                                                |                                                                                                                                             |                                                                             |                           |  |
|   | 3,4 | Active transport.                   | Describe water relations in plants. State the role of active transport in plants.                              | Oral questions and brief discussion.                                                                                                        |                                                                             | KLB BOOK I<br>Page 44     |  |

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| 6 | 1   | NUTRITION IN PLANTS AND ANIMALS<br><br>Introduction.<br><br>Autotrophism and hetetrophism. | Define nutrition.<br>State importance of nutrition.<br>Differentiate between autotrophism and heterotrophsm. | Q/A and guided discussion.                                                                                                                  |                                                                 | KLB BOOK I<br>Page 48     |  |
|   | 2-4 | External structure of a leaf.                                                              | Describe the external structure of a leaf.                                                                   | Examine the external structure of a leaves.<br>Draw and label different types of leaves.<br>Q/A and brief discussion on differences between | <i>Monocotyledonous and dicotyledonous leaves, hand lenses.</i> | KLB BOOK I<br>Pages 49-50 |  |
| 7 | 1   | C.A.T.                                                                                     |                                                                                                              |                                                                                                                                             |                                                                 |                           |  |
|   | 2-4 | Internal structure of a leaf.                                                              | Draw and label the trans- section of a leaf.<br>State the functions of the internal parts of a leaf.         | Drawing and labeling a cross-section of a leaf.<br>Discuss the function of each internal part.                                              | <i>Chart - trans-section of a leaf.</i>                         | KLB BOOK I<br>Pages 50-51 |  |
| 8 | 1   | Photosynthetic function of a leaf.                                                         | Explain the adaptations of a leaf to its photosynthetic function.                                            | Q/A and detailed discussion.                                                                                                                |                                                                 | KLB BOOK I<br>Page 51     |  |
|   | 2   | The chloroplasts.                                                                          | Describe the structure of a chloroplast.<br>Explain the adaptations of the chloroplast to its function.      | Drawing and labeling a chloroplast.<br>Brief discussion.                                                                                    |                                                                 | KLB BOOK I<br>Page 51     |  |

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| 8  | 3,4 | Distribution of stomata.                                           | Account for the distribution of stomata on leaf surfaces.                                           | Group experiments: determine number of stomata on leaf surfaces. Discuss the results.                 | <i>Klaes / zebrine/ tradescantia leaves, microscope, cover slips, dropper.</i> | KLB BOOK I<br>Pages 52-53 |  |
| 9  | 1,2 | The process of photosynthesis.<br>-Light stage<br>-Dark stage      | Identify raw materials for photosynthesis. Describe the light / dark stage of photosynthesis.       | Exposition of new concepts, Q/A and detailed discussion.                                              |                                                                                | KLB BOOK I<br>Pages 53-54 |  |
|    | 3,4 | Test for starch in a leaf.<br>- CO <sub>2</sub> .                  | Test for presence of starch in a leaf.                                                              | Group experiments and make inferences from the results.                                               | <i>Variegated leaves, iodine solution, methylated spirit, source of heat.</i>  | KLB BOOK I<br>Page 57     |  |
| 10 | 1,2 | Effect of amount of light on rate of photosynthesis.               | Describe experiments to show the effect of amount of light on rate of photosynthesis.               | Group experiments: examine a previously potted plant and test for starch. Discuss the results.        | <i>Destarched leaves.</i>                                                      | KLB BOOK I<br>Page 57-58  |  |
|    | 3,4 | Effect of CO <sub>2</sub> concentration on rate of photosynthesis. | Describe experiments to show the effect of CO <sub>2</sub> concentration on rate of photosynthesis. | Group experiments: examine plants under different CO <sub>2</sub> concentration. Discuss the results. | <i>Potted plant NaOH pellets, droppers.</i>                                    | KLB BOOK I<br>Pages 57-58 |  |
| 11 | 1,2 | Chlorophyll and photosynthesis.                                    | Describe experiments to show that chlorophyll is required for photosynthesis.                       | Examine a variegated leaf, carry out starch test and discuss the results.                             | <i>Variegated leaf iodine solution, heat.</i>                                  | KLB BOOK I<br>Pages 58-59 |  |
|    | 3,4 | Oxygen as by-product of photosynthesis.                            | Show that oxygen is a by-product of photosynthesis.                                                 | Teacher demonstration and carrying out tests for oxygen.                                              | <i>Test tubes, water plant, wooden splint, NaHCO<sub>3</sub>.</i>              | KLB BOOK I<br>Page 59     |  |
|    |     | END OF TERM TWO EXAMINATIONS                                       |                                                                                                     |                                                                                                       |                                                                                |                           |  |

**BIOLOGY FORM ONE TERM THREE ONE YEAR 20 .....**

| <b>WK /NO</b> | <b>L/ NO</b> | <b>TOPIC / SUBTOPIC</b>                     | <b>LESSON OBJECTIVES</b>                                                                                             | <b>TEACHING / LEARNING ACTIVITIES</b>                              | <b>RESOURCES / MATERIALS</b>                                                | <b>REF</b>                | <b>REMARKS</b> |
|---------------|--------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------|----------------|
| 1             | 1,2          | <b>Chemicals of life:</b><br>Carbohydrates. | Name classes of carbohydrates.<br>State properties and functions of monosacchrides, disacchrides and polysacchrides. | Exposition of new concepts, oral questioning and brief discussion. |                                                                             | KLB BOOK I<br>Pages 59-60 |                |
|               | 3,4          | Test for starch in food substances.         | Carry our tests to determine presence of starch in food substances.                                                  | Group experiments: making observations and drawing conclusions.    | Iodine solution, distilled water, test tubes, food substances.              | KLB BOOK I<br>Pages 61-62 |                |
| 2             | 1            | Test for reducing sugars.                   | Carry our tests to determine presence of reducing sugars in given food substances.                                   | Group experiments: making observations and drawing conclusions.    | Glucose, Benedict's solution, water bath, containers.                       | KLB BOOK I<br>Page 62     |                |
|               | 2            | Test for non-reducing sugars.               | Carry our tests to determine presence of non-reducing sugars.                                                        | Group experiments: making observations and drawing conclusions.    | Sucrose, Benedict's solution, water bath, HCl, NaHCO <sub>3</sub> solution. | KLB BOOK I<br>Pages 62-63 |                |
|               | 3            | Properties of lipids.                       | Identify properties of lipids.                                                                                       |                                                                    |                                                                             |                           |                |
|               | 4            | Functions of lipids.                        | State functions of lipids.                                                                                           | Exposition of new concepts.<br>Brief discussion.                   |                                                                             | KLB BOOK I<br>Page 64     |                |
| 3             | 1            | Test for lipids.                            | Describe experiments to show presence of lipids.                                                                     | Group experiments: making observations and drawing conclusions.    | Fat / oil, ethanol, filter paper.                                           | KLB BOOK I<br>Page 64     |                |

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|   | 2   | Proteins.<br>- constituents<br>and functions. | Identify constituents of<br>proteins.<br>State functions of proteins.                                                 | Exposition of new<br>concepts.<br>Brief discussion.                                                                |                                                                                                                            | KLB BOOK<br>I<br>Page.          |  |
|   | 3,4 | Test for<br>proteins.                         | Describe experiments to<br>show presence of proteins.                                                                 | Group experiments:<br>making observations<br>and drawing<br>conclusions.                                           | <i>NaOH solution,<br/>egg albumen or<br/>milk, test tubes,<br/>droppers, CuSO<sub>4</sub><sup>7</sup><br/>solution.</i>    | KLB BOOK<br>I<br>Page.          |  |
| 4 | 1,2 | Enzymes.                                      | Define an enzyme.<br>Differentiate between<br>intracellular and<br>extracellular enzymes.<br>Identify common enzymes. | Exposition of new<br>concepts.<br>Brief discussion.                                                                |                                                                                                                            | KLB BOOK<br>I<br>Page.          |  |
|   | 3,4 | Enzymes and<br>temperature.                   | Illustrate graphically the<br>effect of temperature on<br>enzyme activity.                                            | Group experiments,<br>analyse the observations<br>made.                                                            | <i>Benedict's<br/>solution, iodine,<br/>water bath,<br/>thermometer,<br/>starch powder,<br/>amylase, graph<br/>papers.</i> | KLB BOOK<br>I<br>Pages<br>67-68 |  |
| 5 | 1   | Enzymes and<br>pH.                            | Illustrate graphically the<br>effect of pH on enzyme<br>activity.                                                     | Group experiments,<br>analyse the observations<br>made.<br>Sketch graphs to<br>represent the<br>observations made. | <i>Graph papers.</i>                                                                                                       | KLB BOOK<br>I<br>Page<br>68     |  |
|   | 2   | Enzymes and<br>substrate<br>concentration.    | Explain the effect of<br>substrate concentration on<br>rate of enzyme activity.                                       | Probing questions and<br>brief discussion.                                                                         |                                                                                                                            | KLB BOOK<br>I<br>Page 69        |  |

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| 5 | 3   | Importance of enzymes.                                               | Discuss the importance of enzymes.                                                                  | Q/A and brief discussion.                                                                                   |                                                                    | KLB BOOK I<br>Page 69-70  |  |
|   | 4   | Enzyme inhibitors.                                                   | Define an enzyme inhibitor.<br>Describe various enzyme competitive inhibitors.                      | Probing questions and exposition of new ideas.                                                              |                                                                    | KLB BOOK I<br>Page 69     |  |
| 6 | 1   | <b>Nutrition in animals.</b><br><br>Heterotrophic mode of nutrition. | Describe various modes of heterotrophic nutrition. Differentiate between heterodonts and homodonts. | Exposition of new ideas coupled with probing questions.                                                     | <i>Specimens of various sets of teeth.</i>                         | KLB BOOK I<br>Pages 72-73 |  |
|   | 2,3 | Dental formula.                                                      | Identify components of a dental formula.<br>Relate dental formulas with feeding habits of animals.  | Probing questions, exposition and discussion.<br>Compare dentition in carnivores, herbivores and omnivores. | <i>Jawbones of rabbit, sheep, dog.<br/>Picture of human skull.</i> | KLB BOOK I<br>Pages 73-74 |  |
|   | 4,  | Structure of a tooth.                                                | Draw and label vertical sections of teeth.                                                          | Drawing and labeling.                                                                                       | <i>Charts-vertical section of teeth.</i>                           | KLB BOOK I<br>Pages 75-76 |  |
|   | 1   | Dental diseases.                                                     | Identify common dental defects and diseases.                                                        | Open discussion on oral hygiene.<br><br>Brief discussion on dental caries and                               | <i>Photographs of teeth with dental disorders.</i>                 | KLB BOOK I<br>Pages 77-78 |  |
|   | 4   | C.A.T                                                                |                                                                                                     |                                                                                                             |                                                                    |                           |  |
| 7 |     |                                                                      |                                                                                                     |                                                                                                             |                                                                    |                           |  |

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| 8  | 1,2         | Digestive system in animals.<br><br>Introduction.<br><br>The digestive system | Define ingestion, digestion, mastication, digestion and egestion.<br>Draw and label the digestive tract. | Q/A and brief discussion.<br><br>Drawing and labeling.           | <i>Chart- the digestive system.</i>                         | KLB BOOK I<br>Pages 78-79 |  |
|    | 3,<br><br>4 | Digestion in the mouth.<br><br>Digestion in the stomach.                      | Describe digestion of food in the mouth and in the stomach.                                              | Probing questions, exposition of new terms and brief discussion. |                                                             | KLB BOOK I<br>Pages 77-80 |  |
| 9  | 1           | Digestion in the duodenum.                                                    | Describe digestion of food in the duodenum.                                                              | Exposition and brief discussion.                                 | <i>Cooking oil, NaHCO<sub>3</sub> solution, test tubes.</i> | KLB BOOK I<br>Page 80     |  |
|    | 2           | Emulsification of fats.                                                       | Describe simple experiments to show emulsification of fats.                                              | Teacher demonstration; Discussion.                               |                                                             | KLB BOOK I<br>Page 81     |  |
|    | 3,4         | Digestion in ileum.                                                           | Describe digestion of food in the ileum.                                                                 | Probing questions, exposition of new terms and brief discussion. |                                                             | KLB BOOK I<br>Page 81     |  |
| 10 | 1           | Food absorption.                                                              | Explain adaptive features of the ileum.                                                                  | Drawing and labelling diagrams & discussion.                     |                                                             | KLB BOOK I<br>Pages 83-84 |  |
|    | 2           | Food assimilation & egestion.                                                 | Identify the forms in which food is assimilated.                                                         | Probing questions; Brief discussion.                             |                                                             | KLB BOOK I<br>Page 84     |  |

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| 10 | 3   | Vitamins.                      | List down types of vitamins and their sources.          | Copying a table of vitamins, their sources, functions and deficiency symptoms.                                                   |                                          | KLB BOOK I<br>Pages 85-86 |  |
|    | 4   | Test for vitamin C.            | Carry out an experiment to test for vitamin C.          | Group experiments and making analytical inferences.                                                                              | <i>Substrates, DCPIP, ascorbic acid.</i> | KLB BOOK I<br>Page 87     |  |
| 11 | 1,2 | Mineral salts.                 | Classify mineral salts. Explain importance of minerals. | Q/A and brief discussion. Copy a table showing type of mineral, the source and the function in the body and deficiency symptoms. |                                          | KLB BOOK I<br>Page 87     |  |
|    | 3,4 | Energy requirements in humans. | State and explain factors affecting food intake.        | Probing questions and brief discussion.                                                                                          |                                          | KLB BOOK I<br>Pages 88-89 |  |
|    |     | END OF TERM THREE EXAMS        |                                                         |                                                                                                                                  |                                          |                           |  |