

# **TETU-NORTH ZONE SCHEME OF WORK**

## **GRADE 8 INTEGRATED SCIENCE SCHEMES OF WORK TERM 2 2025**

**TEACHER'S NAME:..... SCHOOL:..... TSC NUMBER: .....**

| <b>Week</b> | <b>Lesson</b>             | <b>Strand</b>                              | <b>Sub-strand</b>       | <b>Lesson-Learning outcomes</b>                                                                                                                                                                                                                                                             | <b>Learning Experience</b>                                                                                                                                                                                                        | <b>Key Inquiry Question(S)</b> | <b>Learning Resources</b>                                                                          | <b>Assessment Methods</b>                                        | <b>Reflection</b> |
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| <b>1</b>    | <b>OPENER ASSESSMENT.</b> |                                            |                         |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                   |                                |                                                                                                    |                                                                  |                   |
| <b>2</b>    | <b>1</b>                  | <b>LIVING THINGS AND THEIR ENVIRONMENT</b> | Definition of the cell. | By the end of the lesson the learner should be able to;<br>i. Identify the unicellular and multicellular organisms.<br>ii. Describe the structure of the unicellular and multicellular organisms.<br>iii. Appreciate the role of unicellular and multicellular organism in the environment. | Observe a picture showing both unicellular and multicellular organism.<br><br>Watch a video showing the structure of unicellular and multicellular organism.<br><br>Draw the structure of unicellular and multicellular organism. | What is a cell?                | Active;<br>Integrated science<br>Learner's Book<br>Grade 8 pg.74<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |                   |
|             |                           | <b>LIVING THINGS AND THEIR ENVIRONMENT</b> | Definition of the cell. | By the end of the lesson the learner should be able to;<br>i. State the various processes that occur in a cell.<br>ii. Describe the various processes that occur in a cell.<br>iii. Appreciate the processes that occurs in a cell.                                                         | Watch a video showing the processes that occurs in a cell.<br><br>Observe pictures showing various processes that occurs in a cell.<br><br>In groups learners to discuss the processes that occurs in a cell.                     | What is a cell?                | Active;<br>Integrated science<br>Learner's Book<br>Grade 8 pg.74<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |                   |

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|   | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope. (the light microscope)              | By the end of the lesson the learner should be able to;<br>i. State the parts of a microscope.<br>ii. Describe the functions of the various parts of a light microscope.<br>iii. Enjoy the use a light microscope.        | In groups, learners to label the parts of a real microscope.<br><br>In groups, learners to discuss the functions of various parts of a microscope.<br><br>Learners to draw a microscope.                                            | What are some of the parts of a microscope? | Active;<br>Integrated science<br>Learner's Book Grade 8 pg.75<br><br>Picture Video Charts  | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|   | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope.(plant cell)                         | By the end of the lesson the learner should be able to;<br>i. State the parts of a plant cell.<br>ii. Describe the adaptations of the plant cell to its function.<br>iii. Appreciate the need for a plant cell in life.   | Learners to observe a picture showing the parts of a plant cell.<br><br>In groups, learners to discuss the functions of parts of a plant cell.<br><br>In groups, learners to discuss the adaptations of plant cell to its function. | What are some of the parts of a plant cell? | Active;<br>Integrated science<br>Learner's Book Grade 8 pg.76<br><br>Picture Video Charts  | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|   |   | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope.(plant cell)                         | By the end of the lesson the learner should be able to;<br>i. State the functions of parts of a plant cell.<br>ii. Describe the functions of parts of a plant cell.<br>iii. Appreciate the need for a plant cell in life. | Learners to watch a video showing the parts of a plant cell.<br>In groups, the learners to discuss the functions of parts of a plant cell.<br><br>In pairs, the learners to draw the parts of plant cell.                           | What are some of the parts of a plant cell? | Active;<br>Integrated science<br>Learner's Book Grade 8 pg. 76<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
| 3 | 1 | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope.(functions of parts of a plant cell) | By the end of the lesson the learner should be able to;<br>i.State the functions of parts of a plant cell.<br>ii. Describe the functions of parts of a plant cell.                                                        | Learners to watch a video showing the parts of a plant cell.<br>In groups, the learners to discuss the functions of parts of a plant cell.                                                                                          | What are some of the parts of a plant cell? | Active;<br>Integrated science<br>Learner's Book Grade 8 pg.77<br><br>Picture Video Charts  | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |

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|  |   |                                     |                                                               | iii. Appreciate the need for a plant cell in life.                                                                                                                                                                                      | In pairs, the learners to draw the parts of plant cell.                                                                                                                                                                                        |                                               |                                                                                                    |                                                                  |  |
|  | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope.(animal cell) | By the end of the lesson the learner should be able to;<br>i.State the functions of parts of an animal cell.<br>ii. Describe the adaptations of animal cell to its function.<br>iii. Appreciate the need for an animal cell in animals. | Learners to observe a picture showing the parts of an animal cell.<br><br>In groups the learners to discuss the functions of parts of a plant cell.<br><br>In groups the learners to discuss the adaptation of an animal cell to its function. | What are some of the parts of an animal cell? | Active;<br>Integrated science<br>Learner's Book<br>Grade 8 pg.78<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  |   | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope.(animal cell) | By the end of the lesson the learner should be able to;<br>i.State the functions of parts of an animal cell.<br>ii. Describe the functions of an animal cell.<br>iii. Appreciate the need for animal cell.                              | Learners to watch a video showing the parts of an animal cell.<br><br>In groups, the learners to discuss the functions of parts of an animal cell.<br><br>In pairs, the learners to draw an animal cell.                                       | What are some of the parts of an animal cell? | Active;<br>Integrated science<br>Learner's Book<br>Grade 8 pg.79<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope.(animal cell) | By the end of the lesson the learner should be able to;<br>i.State the functions parts of an animal cell.<br>ii. Describe the functions of parts of an animal cell.<br>iii. Appreciate the need for various parts of an animal cell.    | Learners to watch a video showing the parts of an animal cell.<br><br>In groups, the learners to discuss the functions of parts of an animal cell.<br><br>In pairs, the learners to draw an animal cell.                                       | What are some of the parts of an animal cell? | Active;<br>Integrated science<br>Learner's Book<br>Grade 8 pg.80<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Cell structure as seen under a light microscope.(comparis     | By the end of the lesson the learner should be able to;                                                                                                                                                                                 | In groups, learners to discuss the similarities                                                                                                                                                                                                | How is the plant cell                         | Active;<br>Integrated science                                                                      | Oral questions<br>Oral Report                                    |  |

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|   |   |                                     | <i>on between plant and animal cell)</i>                                                                         | <p>i.State the similarities and difference between an animal and a plant cell.</p> <p>ii. Describe the similarities and differences between an animal and a plant cell.</p> <p>iii. Appreciate the similarities and differences between an animal and a plant cell.</p>  | <p>between plant and animal cell.</p> <p>In groups, learners to discuss the difference between plant and animal cell.</p>                                                                                                                                                                      | <p>different from an animal cell?</p> <p>What are the similarities between an animal cell and a plant cell?</p> | <p>Learner's Book Grade 8 pg.81</p> <p>Picture Video Charts</p>                            | <p>Observation Written exercise</p>                            |  |
| 4 |   | LIVING THINGS AND THEIR ENVIRONMENT | Preparation of temporary slides of plant cells. ( <i>plant cell as observed under a light microscope</i> )       | <p>By the end of the lesson the learner should be able to;</p> <p>i. State the various parts of a light microscope.</p> <p>ii. Describe how to use the light microscope with a permanent slide of a plant cell.</p> <p>iii. Appreciate the use of a permanent slide.</p> | <p>Learners to observe a picture showing the parts of a microscope.</p> <p>In groups, learners to demonstrate how to use a microscope with a permanent slide.</p> <p>In pairs, learners to draw the structure of a plant cell as observed under a light microscope with a permanent slide.</p> | <p>Name the structures of a plant cell?</p>                                                                     | <p>Active; Integrated science Learner's Book Grade 8 pg.82</p> <p>Picture Video Charts</p> | <p>Oral questions Oral Report Observation Written exercise</p> |  |
|   | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Preparation of temporary slides of plant cells.( <i>observation of a temporary slide containing plant cell</i> ) | <p>By the end of the lesson the learner should be able to;</p> <p>i.State the various apparatus used to prepare a temporary slide.</p> <p>ii. Describe how to prepare a temporary slide of a plant cell.</p> <p>iii. Appreciate the need for preparing a</p>             | <p>In groups, learners to label the apparatus used to prepare a temporary plant cell slide.</p> <p>In groups, learners to prepare a temporary slide of a plant cell.</p> <p>In groups, learners to observe the structure of a plant cell prepared on a temporary slide.</p>                    | <p>Name the structures of a plant cell?</p>                                                                     | <p>Active; Integrated science Learner's Book Grade 8 pg.83</p> <p>Picture Video Charts</p> | <p>Oral questions Oral Report Observation Written exercise</p> |  |

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|  |   |                                     |                                                                                                                   | temporary slide of a plant cell.                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                             |                                      |                                                                                                    |                                                                  |  |
|  |   | LIVING THINGS AND THEIR ENVIRONMENT | Preparation of temporary slides of plant cells.( <i>animal cell as observed under a light microscope</i> )        | By the end of the lesson the learner should be able to;<br>i. State the various parts of a light microscope.<br>ii. Describe how to use the light microscope with a permanent slide of an animal cell.<br>iii. Appreciate the use of a permanent slide.                      | Learners to observe a picture showing the parts of a microscope.<br><br>In groups, learners to demonstrate how to use a microscope with a permanent slide of an animal cell.<br><br>In pairs, learners to draw the structure of an animal cell as observed under a light microscope with a permanent slide. | Name the structures of a plant cell? | Active;<br>Integrated science<br>Learner's Book<br>Grade 8 pg.84<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Preparation of temporary slides of plant cells.( <i>observation of a temporary slide containing animal cell</i> ) | By the end of the lesson the learner should be able to;<br>i.State the various apparatus used to prepare a temporary slide.<br>ii. Describe how to prepare a temporary slide of an animal cell.<br>iii. Appreciate the need for preparing a temporary slide of a plant cell. | In groups, learners to label the apparatus used to prepare a temporary animal cell slide.<br><br>In groups, learners to prepare a temporary slide of an animal cell.<br><br>In groups, learners to observe the structure of an animal cell prepared on a temporary slide                                    | Name the structures of a plant cell? | Active;<br>Integrated science<br>Learner's Book<br>Grade 8 pg.85<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Preparation of temporary slides of plant cells.( <i>revision</i> )                                                | By the end of the lesson the learner should be able to;<br>i. Answer written questions correctly.<br>ii. Explain the questions correctly.                                                                                                                                    | Revision                                                                                                                                                                                                                                                                                                    | Revision                             | Revision                                                                                           | Revision                                                         |  |

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|   |   |                                     |                                                                                                                | iii. Appreciate the need for doing an assessment.                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                   |                                |                                                                                     |                                                                  |  |
| 5 |   | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope( <i>definition of the term magnification</i> )          | By the end of the lesson the learner should be able to;<br>i. Define the term magnification.<br>ii. Calculate the magnification of a specimen by a light microscope.<br>iii. Enjoy calculating the magnification of a specimen by a light microscope. | In groups learners to prepare a chart defining the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification? | Active; Integrated science Learner's Book Grade 8 pg.86<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|   | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope( <i>definition of the term resolution</i> )             | By the end of the lesson the learner should be able to;<br>i. Define the term resolution (resolving power of a microscope)<br>ii. Describe the term resolving power.<br>iii. Appreciate the need to use a light microscope.                           | Learners to define the term resolving power.<br><br>In groups the learners discuss the meaning of the term resolving power.                                                                                                                                                       | Define the term magnification? | Active; Integrated science Learner's Book Grade 8 pg.87<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|   | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope( <i>calculating the magnification of a plant cell</i> ) | By the end of the lesson the learner should be able to;<br>i. Define the term resolution (resolving power of a microscope)<br>ii. Describe the term resolving power.<br>iii. Appreciate the need to use a light microscope.                           | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope.                             | Define the term magnification? | Active; Integrated science Learner's Book Grade 8 pg.88<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |

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|   |   | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope(<br><i>calculating the magnification of an animal cell</i> ) | By the end of the lesson the learner should be able to;<br>i. Define the term magnification.<br>ii. Calculate the magnification of a cell under a light microscope.<br>iii. Appreciate the need to use a light microscope. | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification? | Active;<br>Integrated science<br>Learner's Book Grade 8 pg.89<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|   | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope(<br><i>calculating the magnification of an animal cell</i> ) | By the end of the lesson the learner should be able to;<br>i. Define the term magnification.<br>ii. Calculate the magnification of a cell under a light microscope.<br>iii. Appreciate the need to use a light microscope. | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification? | Active;<br>Integrated science<br>Learner's Book Grade 8 pg.90<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
| 6 | 1 | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope.                                                             | By the end of the lesson the learner should be able to;<br>i. Define the term magnification.<br>ii. Calculate the magnification of a cell under a light microscope.<br>iii. Appreciate the need to use a light microscope. | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification? | Active;<br>Integrated science<br>Learner's Book Grade 8 pg.91<br><br>Picture<br>Video<br>Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |

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|  |   | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope                                    | By the end of the lesson the learner should be able to;<br>i. Define the term magnification.<br>ii. Calculate the magnification of a cell under a light microscope.<br>iii. Appreciate the need to use a light microscope. | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification? | Active; Integrated science<br>Learner's Book Grade 8 pg.92<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope                                    | By the end of the lesson the learner should be able to;<br>i. Define the term resolution (resolving power of a microscope)<br>ii. Make a model of a cell.<br>iii. Appreciate the need to use a light microscope.           | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification? | Active; Integrated science<br>Learner's Book Grade 8 pg.93<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope( importance of a light microscope) | By the end of the lesson the learner should be able to;<br>i. Define the term magnification.<br>ii. Calculate the magnification of a cell.<br>iii. Appreciate the need to use a light microscope.                          | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification? | Active; Integrated science<br>Learner's Book Grade 8 pg.94<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |



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|   |                                       | LIVING THINGS AND THEIR ENVIRONMENT | Magnification of cells seen under the light microscope (revision)             | By the end of the lesson the learner should be able to;<br>i. Define the term magnification.<br>ii. Calculate the magnification of a cell.<br>iii. Appreciate the need to use a light microscope.                          | Learners to define the term magnification.<br><br>Learners to observe a demonstration on how to calculate magnification of a specimen by light microscope.<br><br>Learners to practice calculating magnification of a specimen by a light microscope. | Define the term magnification?                 | Active; Integrated science<br>Learner's Book Grade 8 pg.95<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
| 7 | <b>MID-TERM ASSESSMENT AND BREAK.</b> |                                     |                                                                               |                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                       |                                                |                                                                                        |                                                                  |  |
| 8 | 1                                     | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell.(structure of the cell membrane) | By the end of the lesson the learner should be able to;<br>i. State the parts of a cell membrane.<br>ii. Describe the structure of a cell membrane.<br>iii. Appreciate the need to have a cell membrane as part of a cell. | Learners to observe a picture showing the parts of a cell membrane.<br><br>In groups learners to discuss the structure of a cell membrane.<br><br>Learners to draw the structure of a cell membrane.                                                  | How do substances move in and out of the cell? | Active; Integrated science<br>Learner's Book Grade 8 pg.96<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|   | 2                                     |                                     | Movement of materials in and out of the cell(parts of the cell membrane)      | By the end of the lesson the learner should be able to;<br>i. State the parts of a cell membrane.<br>ii. Describe the structure of a cell membrane.<br>iii. Appreciate the need to have a cell membrane as part of a cell. | Learners to watch a video showing the parts of a cell membrane.<br><br>In groups, learners to draw a cell membrane.                                                                                                                                   | How do substances move in and out of the cell? | Active; Integrated science<br>Learner's Book Grade 8 pg.97<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |

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|  |   | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell( semi-permeability)             | By the end of the lesson the learner should be able to;<br>i. Define the term semi-permeability.<br>ii. Describe semi-permeability as a property of cell membrane.<br>iii. Appreciate the need for a cell membrane to be semi-permeable.                  | Learners to define the term semi-permeability of a cell.<br><br>In groups learners to discuss how semi-permeability affects the movement of substances in and out of the cell.<br><br>In groups, learners to demonstrate semi-permeability using a visking. | How do substances move in and out of the cell? | Active; Integrated science<br>Learner's Book Grade 8 pg.98<br><br>Picture Video Charts  | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell(possession of electric charges) | By the end of the lesson the learner should be able to;<br>i. State the electric charges found on the cell membrane.<br>ii. Describe the role of charges on the cell membrane.<br>iii. Appreciate the need to have electric charges on the cell membrane. | Learners to state the electric charges found on the cell membrane.<br><br>Learners to discuss the role of charges on a cell membrane.<br><br>Learners to discuss how electric charges affects the movement of substances in and out of the cell.            | How do substances move in and out of the cell? | Active; Integrated science<br>Learner's Book Grade 8 pg.100<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of                                          | By the end of the lesson the learner should be able to;                                                                                                                                                                                                   | Learners to define the term PH.                                                                                                                                                                                                                             | How do substances move in                      | Active; Integrated science                                                              | Oral questions<br>Oral Report                                    |  |

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|   |   |                                     | the cell( sensitivity to changes in PH)                                           | <p>i.State the effect of pH on the cell membrane.</p> <p>ii. Describe the effect of pH on a cell membrane.</p> <p>iii. Appreciate the effect on pH on a cell membrane.</p>                                                                        | <p>Learners to discuss how the PH affects the movement of substances in and out of the cell.</p> <p>In groups learners to demonstrate using a model how PH affects the movement of substances in and out of the cell.</p>                                                   | and out of the cell?                           | <p>Learner's Book Grade 8 pg.100</p> <p>Picture Video Charts</p>                            | Observation Written exercise                                                        |  |
| 9 |   | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell(meaning of diffusion)                | <p>By the end of the lesson the learner should be able to;</p> <p>i.Define the term diffusion.</p> <p>ii. Demonstrate the process of diffusion.</p> <p>iii. Appreciate the role of diffusion in living things.</p>                                | <p>Learners to define the term diffusion.</p> <p>In groups, the learners to demonstrate diffusion using potassium manganate (VII).</p> <p>Learners to write an explanation on the changes observed when testing for diffusion using water and potassium manganate (VII)</p> | How do substances move in and out of the cell? | <p>Active; Integrated science Learner's Book Grade 8 pg.101</p> <p>Picture Video Charts</p> | <p>Oral questions</p> <p>Oral Report</p> <p>Observation</p> <p>Written exercise</p> |  |
|   | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell( role of diffusion in living things) | <p>By the end of the lesson the learner should be able to;</p> <p>i. State the role of diffusion in living things.</p> <p>ii. Describe the role of diffusion in living things.</p> <p>iii. Appreciate the role of diffusion in living things.</p> | <p>In groups, the learners to state the role of diffusion in living things.</p> <p>In groups the learners to discuss the role of diffusion in living things.</p> <p>Learners to present their findings.</p>                                                                 | How do substances move in and out of the cell? | <p>Active; Integrated science Learner's Book Grade 8 pg.101</p> <p>Picture Video Charts</p> | <p>Oral questions</p> <p>Oral Report</p> <p>Observation</p> <p>Written exercise</p> |  |
|   | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell(factors affecting diffusion)         | <p>By the end of the lesson the learner should be able to;</p>                                                                                                                                                                                    | <p>Learners to watch a video showing the factors affecting diffusion.</p>                                                                                                                                                                                                   | How do substances move in                      | <p>Active; Integrated science</p>                                                           | <p>Oral questions</p> <p>Oral Report</p>                                            |  |

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|    |   |                                     |                                                                                                               | <p>i. State the factors that affect diffusion.</p> <p>ii. Explain the factors that affect diffusion.</p> <p>iii. Appreciate the role of diffusion in living things.</p>                                                                                                                              | <p>Learners to discuss various factors that affect diffusion.</p> <p>In groups, the learners present their findings on factors that affect diffusion.</p>                                                                                         | and out of the cell?                           | <p>Learner's Book Grade 8 pg.101</p> <p>Picture Video Charts</p>                            | Observation Written exercise                                                        |  |
|    |   | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell( surface area to volume ratio as a factor affecting diffusion)   | <p>By the end of the lesson the learner should be able to;</p> <p>i. State how surface area to volume ratio as a factor affects diffusion.</p> <p>ii. Describe how surface area to volume ratio affect diffusion.</p> <p>iii. Appreciate need for movement of substances in and out of the cell.</p> | <p>Learners to define the term surface area to volume ratio.</p> <p>Learners to discuss how surface area to volume ratio affect diffusion.</p> <p>Learners to demonstrate using a model on how surface area to volume ratio affect diffusion.</p> | How do substances move in and out of the cell? | <p>Active; Integrated science Learner's Book Grade 8 pg.102</p> <p>Picture Video Charts</p> | <p>Oral questions</p> <p>Oral Report</p> <p>Observation</p> <p>Written exercise</p> |  |
|    | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell (temperature as a factor affecting diffusion)                    | <p>By the end of the lesson the learner should be able to;</p> <p>i.State how temperature as a factor affect diffusion.</p> <p>ii. Describe how temperature as a factor affect diffusion.</p> <p>iii. Appreciate the need for movement of substances in and out of the cell.</p>                     | <p>Learners to define the term temperature.</p> <p>Learners to discuss how temperature affect diffusion.</p> <p>Learners to demonstrate how temperature affect diffusion using a visking tubing.</p>                                              | How do substances move in and out of the cell? | <p>Active; Integrated science Learner's Book Grade 8 pg.103</p> <p>Picture Video Charts</p> | <p>Oral questions</p> <p>Oral Report</p> <p>Observation</p> <p>Written exercise</p> |  |
| 10 | 1 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell(thickness of the membrane ratio as a factor affecting diffusion) | <p>By the end of the lesson the learner should be able to;</p> <p>i. State how thickness of a membrane affects the rate of diffusion.</p>                                                                                                                                                            | <p>Learners to state how thickness of a membrane affects the rate of diffusion.</p>                                                                                                                                                               | How do substances move in and out of the cell? | <p>Active; Integrated science Learner's Book Grade 8 pg.103</p>                             | <p>Oral questions</p> <p>Oral Report</p> <p>Observation</p> <p>Written exercise</p> |  |

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|  |   |                                     |                                                                                                             | <p>ii. Describe how thickness of a membrane affect the rate of diffusion.</p> <p>iii. Appreciate the need for movement of substances in and out of the cell.</p>                                                                                                                                             | <p>In groups, learners to discuss how thickness of a membrane affects the rate of diffusion.</p> <p>In groups, the learners to demonstrate how thickness of a membrane affects the rate of diffusion using a visking.</p>                                                                                                        |                                                | Picture Video Charts<br>Visking tubing                                                      |                                                                                     |  |
|  | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell( concentration gradient ratio as a factor affecting diffusion) | <p>By the end of the lesson the learner should be able to;</p> <p>i. State how concentration gradient affects the rate of movement of diffusion.</p> <p>ii. Describe how concentration gradient affects the rate of diffusion.</p> <p>iii. Appreciate the movement of substances in and out of the cell.</p> | <p>Learners to brainstorm on the meaning of the term concentration gradient.</p> <p>Learners to discuss how concentration gradient affect the rate of diffusion.</p> <p>Learners to demonstrate using a visking on how concentration gradient affect the rate of diffusion.</p>                                                  | How do substances move in and out of the cell? | <p>Active; Integrated science Learner's Book Grade 8 pg.104</p> <p>Picture Video Charts</p> | <p>Oral questions</p> <p>Oral Report</p> <p>Observation</p> <p>Written exercise</p> |  |
|  | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell( physical states of particles as a factor affecting diffusion) | <p>By the end of the lesson the learner should be able to;</p> <p>i.State how physical states of particles as a factor affect diffusion.</p> <p>ii. Describe how physical states of particles as a factor affect diffusion.</p> <p>iii. Appreciate the movement of substances in and out of the cell.</p>    | <p>Learners to brainstorm on how the physical state of particles affects the rate of diffusion.</p> <p>Learners to watch a video on how physical state of particles affect the rate of diffusion.</p> <p>Learners to demonstrate using a visking tubing on how the physical state of particles affect the rate of diffusion.</p> | How do substances move in and out of the cell? | <p>Active; Integrated science Learner's Book Grade 8 pg.105</p> <p>Picture Video Charts</p> | <p>Oral questions</p> <p>Oral Report</p> <p>Observation</p> <p>Written exercise</p> |  |

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|    | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell(definition of the term osmosis)            | By the end of the lesson the learner should be able to;<br>i. Define the term osmosis.<br>ii. Describe the how osmosis take place.<br>iii. Appreciate the need for osmosis.                                              | Learners to brainstorm on the meaning of the term osmosis.<br><br>Learners to discuss on how the process of osmosis takes place.                                                                             | How do substances move in and out of the cell? | Active; Integrated science Learner's Book Grade 8 pg.107<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|    | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell(factors affecting osmosis)                 | By the end of the lesson the learner should be able to;<br>i. State the factors affecting osmosis.<br>ii. Describe the factors affecting osmosis.<br>iii. Appreciate the movement of materials in and out of the cell.   | Learners to use a digital device to research on the factors affecting osmosis.<br><br>Learners to discuss the factors affecting osmosis.                                                                     | How do substances move in and out of the cell? |                                                                                      |                                                                  |  |
| 11 | 1 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell(role of osmosis in living things)          | By the end of the lesson the learner should be able to;<br>i. State the role of osmosis in living things.<br>ii. Describe the role of osmosis in living things.<br>iii. Appreciate the role of osmosis in living things. | In pairs, learners to list the living and non-living things.<br><br>Learners to watch a video showing the role of osmosis in living things.<br><br>Learners to discuss the role of osmosis in living things. | How do substances move in and out of the cell? | Active; Integrated science Learner's Book Grade 8 pg.109<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|    | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Movement of materials in and out of the cell (comparison between diffusion and osmosis) | By the end of the lesson the learner should be able to;<br>i. State comparison between diffusion and osmosis.<br>ii. Describe the relationship between diffusion and osmosis.                                            | Learners to define the term osmosis and diffusion.<br><br>Learners to discuss the relationship between osmosis and diffusion.                                                                                | How do substances move in and out of the cell? | Active; Integrated science Learner's Book Grade 8 pg.110<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |

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|    |   |                                     |                                                                          | iii. Appreciate the role of diffusion and osmosis.                                                                                                                                                                                                |                                                                                                                                                                                                          |                       |                                                                                      |                                                                  |  |
|    | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings                                             | By the end of the lesson the learner should be able to;<br>i. Define the term reproduction.<br>ii. Explain the process of reproduction of human being.<br>iii. Appreciate the role of reproduction of human beings.                               | Learners to brainstorm on the meaning of the term reproduction.<br><br>Learners to discuss the process of reproduction in human beings.<br><br>Learners to draw the male and female reproductive system. | What is reproduction? | Active; Integrated science Learner's Book Grade 8 pg.111<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|    | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings (The menstrual cycle in human beings)       | By the end of the lesson the learner should be able to;<br>i. Define the term menstrual cycle in human beings.<br>ii. Describe the menstrual cycle in human beings.<br>iii. Appreciate the need to maintain personal hygiene during menstruation. | Learners to research the on the meaning of the term menstrual cycle.<br><br>Learners to watch a video on the menstrual cycle.<br><br>In groups, learners to discuss the menstrual cycle.                 | What is reproduction? | Active; Integrated science Learner's Book Grade 8 pg.112<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|    | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings (Challenges related to the menstrual cycle) | By the end of the lesson the learner should be able to;<br>i. State the challenges related to the menstrual cycle.<br>ii. Describe the challenges related to the menstrual cycle.<br>iii. Appreciate the reproduction in human beings.            | Learners to state the challenges related to menstrual cycle.<br><br>In groups the learners to use the digital devices to research on the challenges related to the menstrual cycle.                      | What is reproduction? | Active; Integrated science Learner's Book Grade 8 pg.113<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
| 12 | 1 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings (parts of the reproductive system)          | By the end of the lesson the learner should be able to;                                                                                                                                                                                           | Learners to name the parts of the male and female reproductive system.                                                                                                                                   | What is reproduction? | Active; Integrated science                                                           | Oral questions<br>Oral Report                                    |  |

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|  |   |                                     |                                                             | i. Name the parts of reproductive system.<br>ii. Explain the functions of parts of the reproductive system.<br>iii. Appreciate the reproduction in human beings.                                                                                  | In groups, learners to discuss the functions of the parts of the reproductive system.                                                                               |                       | Learner's Book Grade 8 pg.113<br><br>Picture Video Charts                               | Observation<br>Written exercise                                  |  |
|  | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings( fusion of sperm with the egg) | By the end of the lesson the learner should be able to;<br>i. Explain the fusion of sperm with the egg.<br>ii. Describe the process of fusion of sperm with the egg.<br>iii. Appreciate the need for reproduction in human beings.                | Learners to define the term fusion.<br><br>In groups learners to watch a video on the fusion process.<br><br>Learners to discuss the fusion process.                | What is reproduction? | Active; Integrated science<br>Learner's Book Grade 8 pg.113<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings(implantation)                  | By the end of the lesson the learner should be able to;<br>i. Explain the process of implantation in human beings.<br><br>ii. Describe the process of implantation in human beings.<br>iii. Appreciate the need for reproduction in human beings. | Learners to define the term implantation.<br><br>Learners to watch a video on the implantation process.<br><br>Learners to draw a diagram showing the implantation. | What is reproduction? | Active; Integrated science<br>Learner's Book Grade 8 pg.114<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|  | 4 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings( common STIs)                  | By the end of the lesson the learner should be able to;<br>i. State the common STIs.<br>ii. Describe the various STIs.<br>iii. Appreciate the need to protect oneself from the STIs.                                                              | Learners to state the common STIs.<br><br>In groups learners to watch a video showing the various STIs.                                                             | What is reproduction? | Active; Integrated science<br>Learner's Book Grade 8 pg.116<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |



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|    |   |                                     |                                                                    |                                                                                                                                                                                                                               | In groups learners to discuss the common causes of STIs.                                                                               |                       |                                                                                      |                                                                  |  |
|    | 5 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings( Causes and symptoms of HIV and AIDS) | By the end of the lesson the learner should be able to;<br>i.State the symptoms and causes of HIV and AIDS.<br>ii. Describe the causes of HIV and AIDS.<br>iii. Appreciate the need to protect oneself from HIV and AIDS.     | Learners to watch a video showing the causes and symptoms of HIV and AIDS.<br><br>Learners to discuss the causes of HIV and AIDS.      | What is reproduction? | Active; Integrated science Learner's Book Grade 8 pg.117<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
| 13 | 1 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings(causes and symptoms of Gonorrhea)     | By the end of the lesson the learner should be able to;<br>i.State the causes and symptoms of gonorrhea.<br>ii. Describe the causes and symptoms of Gonorrhea.<br>iii. Appreciate the need to protect oneself from Gonorrhea. | Learners to watch a video showing the causes of gonorrhea.<br><br>In groups learners to discuss the causes of Gonorrhea.               | What is reproduction? | Active; Integrated science Learner's Book Grade 8 pg.118<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|    | 2 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings( causes and symptoms of syphilis)     | By the end of the lesson the learner should be able to;<br>i.State the causes and symptoms of syphilis.<br>ii. Describe the causes and symptoms of syphilis.<br>iii. Appreciate the need to protect oneself from syphilis.    | Learners to watch a video showing the causes and symptoms of syphilis.<br><br>Learners to discuss the causes and symptoms of syphilis. | What is reproduction? | Active; Integrated science Learner's Book Grade 8 pg.119<br><br>Picture Video Charts | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |
|    | 3 | LIVING THINGS AND THEIR ENVIRONMENT | Reproduction in human beings( causes and symptoms of Herpes)       | By the end of the lesson the learner should be able to;<br>i. State the causes and symptoms of herpes.<br>ii. Describe the causes and symptoms of herpes.                                                                     | Learners to watch a video showing the causes and symptoms of herpes.                                                                   | What is reproduction? | Active; Integrated science Learner's Book Grade 8 pg.120<br><br>Picture              | Oral questions<br>Oral Report<br>Observation<br>Written exercise |  |

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