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| **SCLISK SECONDARY SCHOOL**    **SCHEME OF WORK TEACHER’S NAME : SSEFF SUBJECT: BIOLOGY CLASS : S.4 TERM: II YEAR: 2024** | | | | | | | | |
| **Week** | **Period** | **Theme And Topic** | **Competency** | **Learning Outcomes** | **Teaching/Learning Resources** | **Methodology And Techniques** | **References** | **Remarks** |
| 01 | 02 | Theme: Genetics  Topic: Inheritance | The learner appreciates that transmission of characteristics is from parents to offspring through a process known as heredity. | Learners should be able to;   * understand the process of cell division and significance of meiosis (k, u) | * Videos * Charts * Photos * IT resources * Chalk and board | * Guided group discussion * Question and Answer * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 02 | 02 | Theme: Genetics  Topic: Inheritance | The learner appreciates that transmission of characteristics is from parents to offspring through a process known as heredity. | Learners should be able to;   * understand the concept of inheritance using genetic diagrams (u, s) | * Videos * Charts * Photos * IT resources * Chalk and board | * Guided group discussion * Question and Answer * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 03 | 02 | Theme: Genetics  Topic: Inheritance | The learner appreciates that transmission of characteristics is from parents to offspring through a process known as heredity. | Learners should be able to;   * understand and explain sex determination in humans (u, s) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 04 | 02 | Theme: Genetics  Topic: Inheritance | The learner appreciates that transmission of characteristics is from parents to offspring through a process known as heredity. | Learners should be able to;   * understand and explain sex linkage in humans (u, s) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 05 | 02 | Theme: Genetics  Topic:  VARIATION and SELECTION | The learner understands that variation is as a result of changes in the genetic make-up of an organism. | Learners should be able to;   * appreciate that variation in organisms is due to external and internal factors, and that mutations can be beneficial, harmful or neutral (k, u) * identify diseases associated with genetic disorders; e.g. sickle cell anaemia, albinism, and Down’s syndrome (u, v) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 06 | 02 | Theme: Genetics  Topic:  VARIATION and SELECTION | The learner understands that variation is as a result of changes in the genetic make-up of an organism. | Learners should be able to;   * understand the concept of natural selection as a mechanism of evolution (k, u) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 07 | 02 | Theme: Genetics  Topic:  VARIATION and SELECTION | The learner understands that variation is as a result of changes in the genetic make-up of an organism. | Learners should be able to;   * understand the use of artificial selection in selective breeding (u, a) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala | 06 |
| 08 | 02 | Theme: Interrelationships  Topic:  CONCEPT OF ECOLOGY | The learner understands the concepts of communities, habitats, and ecosystems. | Learners should be able to;   * know the meaning of the term ecology (k) * understand the concepts of communities, habitats and ecosystems (s, u) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 09 | 02 | Theme: Interrelationships  Topic:  FOOD CHAINS AND FOOD WEB | The learner appreciates the interdependence of organisms in a given ecosystem. | Learners should be able to;   * understand the feeding relationships in an ecosystem, and express them using food chains, webs, and pyramids (k, u, s) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 10 | 02 | Theme: Interrelationships  Topic:  FOOD CHAINS AND FOOD WEB | The learner appreciates the interdependence of organisms in a given ecosystem. | Learners should be able to;   * appreciate the organisms and processes involved in the carbon cycle, and its role in maintaining the carbon dioxide balance in the atmosphere (u, v) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |
| 10 | 02 | Theme: Coordination in animals  Topic:  NERVOUS COORDINATION IN HUMAN | The learner appreciates that nerve impulses are forms of communication between receptor and effector organs and that impulses are affected/interrupted by chemicals found in drugs and alcohol. | Learners should be able to;   * understand what short and long sightedness is and how they can be corrected (u, s, v) | * Videos * Charts * Photos * IT resources * Lab apparatus | * Guided group discussion * Guided Research * Guided Discovery and Explanation * Brainstorming | * Teacher’s and learner’s notes * Chemistry workbooks * Learner’s Books and Teacher’s guide * O’level Biology by Rubahamya * Introduction to Biology * O’level by Batwala |  |