**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| WK | LSN | TOPIC | SUB-TOPIC | OBJECTIVES | T/L ACTIVITIES | T/L AIDS | REFERENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 1 | **Opening of School** | | | | | | | |
| 2 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Locomotory features of a finned fish. | By the end of the lesson, the learner should be able to:<br>Identify the locomotory features of a finned fish. | Observe external features of a tilapia.<br>Drawing and labeling;<br>Discussion. | A freshly killed tilapi | | |
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Locomotory features of a finned fish. | By the end of the lesson, the learner should be able to:<br>Identify the locomotory features of a finned fish. | Observe external features of a tilapia.<br>Drawing and labeling;<br>Discussion. | A freshly killed tilapi | | |
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Locomotion in a finned fish. | By the end of the lesson, the learner should be able to:<br>Explain how locomotion occurs in a finned fish.<br>Explain how a fish is adapted to locomotion in its habitat. | Review external features of a tilapia.<br>Detailed discussion. | A freshly killed tilapia. | KLB BK IV. PP 117-8 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Locomotion in a finned fish. | By the end of the lesson, the learner should be able to:<br>Explain how locomotion occurs in a finned fish.<br>Explain how a fish is adapted to locomotion in its habitat. | Review external features of a tilapia.<br>Detailed discussion. | A freshly killed tilapia. | KLB BK IV. PP 117-8 | |
| | 5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Locomotion in a finned fish. | By the end of the lesson, the learner should be able to:<br>Explain how locomotion occurs in a finned fish. | Review external features of a tilapia.<br>Detailed discussion. | A freshly killed tilapia. | KLB BK IV. PP 117-8 | |

**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Explain how a fish is adapted to locomotion in its habitat. | | | | |
| 3 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Tail power of a fish. | By the end of the lesson, the learner should be able to:<br>Calculate the tail power of a fish. | Measure length of tail, length of a tilapia fish.<br>Calculations.<br>Discussion on significance of tail power in locomotion. | A freshly killed tilapia. | KLB BK IV. PP 118-9 | |
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Tail power of a fish. | By the end of the lesson, the learner should be able to:<br>Calculate the tail power of a fish. | Measure length of tail, length of a tilapia fish.<br>Calculations.<br>Discussion on significance of tail power in locomotion. | A freshly killed tilapia. | KLB BK IV. PP 118-9 | |
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Support and movement in mammals. The skull and rib cage. | By the end of the lesson, the learner should be able to:<br>Describe the structure of the skull and rib cage. | Observe the human skull and rib cage of a rat / rabbit.<br>Detailed discussion. | Human skull, rib cage of rat / rabbit. | KLB BK IV. PP 119-120 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The vertebral column. Cervical and thoracic vertebrae. | By the end of the lesson, the learner should be able to:<br>Describe the features of the vertebral column.<br>Identify types of vertebrae.<br>Explain adaptations of cervical and thoracic vertebrae to their functions. | Examine cervical and thoracic vertebrae. | Cervical and thoracic vertebrae. | KLB BK IV. PP 121-2 | |

**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The vertebral column. Cervical and thoracic vertebrae. | By the end of the lesson, the learner should be able to: Describe the features of the vertebral column. Identify types of vertebrae. Explain adaptations of cervical and thoracic vertebrae to their functions. | Examine cervical and thoracic vertebrae. | Cervical and thoracic vertebrae. | KLB BK IV. PP 121-2 | |
| 4 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Thoracic and lumbar vertebrae. | By the end of the lesson, the learner should be able to: Explain adaptations of Thoracic and lumbar vertebrae to their functions. | Examine thoracic and lumbar vertebrae. Draw labeled diagrams; Brief discussion. | Thoracic and lumbar vertebrae. | KLB BK IV. PP 122-3 | |
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Thoracic and lumbar vertebrae. | By the end of the lesson, the learner should be able to: Explain adaptations of Thoracic and lumbar vertebrae to their functions. | Examine thoracic and lumbar vertebrae. Draw labeled diagrams; Brief discussion. | Thoracic and lumbar vertebrae. | KLB BK IV. PP 122-3 | |
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Thoracic and lumbar vertebrae. | By the end of the lesson, the learner should be able to: Explain adaptations of Thoracic and lumbar vertebrae to their functions. | Examine thoracic and lumbar vertebrae. Draw labeled diagrams; Brief discussion. | Thoracic and lumbar vertebrae. | KLB BK IV. PP 122-3 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Thoracic and lumbar vertebrae. | By the end of the lesson, the learner should be able to: Explain adaptations of Thoracic and lumbar vertebrae to their functions. | Examine thoracic and lumbar vertebrae. Draw labeled diagrams; Brief discussion. | Thoracic and lumbar vertebrae. | KLB BK IV. PP 122-3 | |

**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Thoracic and lumbar vertebrae. | By the end of the lesson, the learner should be able to:<br>Explain adaptations of Thoracic and lumbar vertebrae to their functions. | Examine thoracic and lumbar vertebrae.<br>Draw labeled diagrams;<br>Brief discussion. | Thoracic and lumbar vertebrae. | KLB BK IV. PP 122-3 | |
| 5 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The sacral and caudal vertebrae. | By the end of the lesson, the learner should be able to:<br>Describe the features of the sacral and caudal vertebrae.<br>Explain adaptations of sacral and caudal vertebrae to their functions. | Examine sacral and caudal vertebrae.<br>Draw labeled diagrams;<br>Brief discussion. | Sacral and caudal vertebrae. | KLB BK IV. P 124 | |
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The sacral and caudal vertebrae. | By the end of the lesson, the learner should be able to:<br>Describe the features of the sacral and caudal vertebrae.<br>Explain adaptations of sacral and caudal vertebrae to their functions. | Examine sacral and caudal vertebrae.<br>Draw labeled diagrams;<br>Brief discussion. | Sacral and caudal vertebrae. | KLB BK IV. P 124 | |
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The appendicular skeleton. | By the end of the lesson, the learner should be able to:<br>Describe the features of the appendicular skeleton. | Examine the appendicular skeleton of a rabbit /sheep.<br>Brief discussion.. | Appendicular skeleton of a rabbit /sheep. | KLB BK IV. PP 124-5 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The appendicular skeleton. | By the end of the lesson, the learner should be able to:<br>Describe the features of the appendicular skeleton. | Examine the appendicular skeleton of a rabbit /sheep.<br>Brief discussion.. | Appendicular skeleton of a rabbit /sheep. | KLB BK IV. PP 124-5 | |

**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The appendicular skeleton. | By the end of the lesson, the learner should be able to: Describe the features of the appendicular skeleton. | Examine the appendicular skeleton of a rabbit /sheep. Brief discussion.. | Appendicular skeleton of a rabbit /sheep. | KLB BK IV. PP 124-5 | |
| 6 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Fore limb. | By the end of the lesson, the learner should be able to: Identify bones of the fore limb. | Examine bones if the fore limb; Drawing labeled diagrams; Discussion. | Bones of the fore limb. | KLB BK IV. PP 126-7 | |
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Fore limb. | By the end of the lesson, the learner should be able to: Identify bones of the fore limb. | Examine bones if the fore limb; Drawing labeled diagrams; Discussion. | Bones of the fore limb. | KLB BK IV. PP 126-7 | |
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Fore limb. | By the end of the lesson, the learner should be able to: Identify bones of the fore limb. | Examine bones if the fore limb; Drawing labeled diagrams; Discussion. | Bones of the fore limb. | KLB BK IV. PP 126-7 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Hind limb. | By the end of the lesson, the learner should be able to: Identify bones of the hind limb. | Examine bones if the hind limb; Drawing labeled diagrams; Discussion. | Bones of the hind limb. | KLB BK IV. P 127 | |
| | 5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Hind limb. | By the end of the lesson, the learner should be able to: Identify bones of the hind limb. | Examine bones if the hind limb; Drawing labeled diagrams; Discussion. | Bones of the hind limb. | KLB BK IV. P 127 | |
| 7 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Movable joints. | By the end of the lesson, the learner should be able to: Identify features of movable joints. | Examine the synovial joint. Brief discussion. | Synovial joint model. | KLB BK IV. P 127 | |

**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Movable joints. | By the end of the lesson, the learner should be able to:<br>Identify features of movable joints. | Examine the synovial joint.<br>Brief discussion. | Synovial joint model. | KLB BK IV. P 127 | |
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Ball and socket joint. | By the end of the lesson, the learner should be able to:<br>Identify features of ball and socket joint. | Examine the synovial joint.<br>Discuss observations. | Synovial joint model. | KLB BK IV. P 128 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The hinge joint.<br>Movement of a joint. | By the end of the lesson, the learner should be able to:<br>Identify features of hinge joint.<br><br>Describe movement of a joint. | Examine a hinge joint.<br><br>Observe movement of the fore arm;<br><br>Discussion. | Illustrative diagrams. | KLB BK IV. PP 128-9 | |
| | 5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | The hinge joint.<br>Movement of a joint. | By the end of the lesson, the learner should be able to:<br>Identify features of hinge joint.<br><br>Describe movement of a joint. | Examine a hinge joint.<br><br>Observe movement of the fore arm;<br><br>Discussion. | Illustrative diagrams. | KLB BK IV. PP 128-9 | |
| 8 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Skeletal muscles. | By the end of the lesson, the learner should be able to:<br>Describe features of skeletal muscles. | Examine diagrams of skeletal muscles;<br>Brief discussion. | Illustrative diagrams. | KLB BK IV. PP 129-30 | |
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Skeletal muscles. | By the end of the lesson, the learner should be able to:<br>Describe features of skeletal muscles. | Examine diagrams of skeletal muscles;<br>Brief discussion. | Illustrative diagrams. | KLB BK IV. PP 129-30 | |

**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Skeletal muscles. | By the end of the lesson, the learner should be able to: Describe features of skeletal muscles. | Examine diagrams of skeletal muscles; Brief discussion. | Illustrative diagrams. | KLB BK IV. PP 129-30 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Smooth or visceral muscles. | By the end of the lesson, the learner should be able to: Describe features of smooth muscles. | Examine diagrams of smooth muscles; Brief discussion. | Illustrative diagrams. | KLB BK IV. PP 129-30 | |
| | 5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Smooth or visceral muscles. | By the end of the lesson, the learner should be able to: Describe features of smooth muscles. | Examine diagrams of smooth muscles; Brief discussion. | Illustrative diagrams. | KLB BK IV. PP 129-30 | |
| 9 | 1 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Cardiac muscles. | By the end of the lesson, the learner should be able to: Describe features of smooth muscles. | Examine diagrams of smooth muscles; Brief discussion; Topic review. | Illustrative diagrams. | KLB BK IV. PP 130-1 | |
| | 2 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Cardiac muscles. | By the end of the lesson, the learner should be able to: Describe features of smooth muscles. | Examine diagrams of smooth muscles; Brief discussion; Topic review. | Illustrative diagrams. | KLB BK IV. PP 130-1 | |
| | 3 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Cardiac muscles. | By the end of the lesson, the learner should be able to: Describe features of smooth muscles. | Examine diagrams of smooth muscles; Brief discussion; Topic review. | Illustrative diagrams. | KLB BK IV. PP 130-1 | |
| | 4 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Cardiac muscles. | By the end of the lesson, the learner should be able to: Describe features of smooth muscles. | Examine diagrams of smooth muscles; Brief discussion; Topic review. | Illustrative diagrams. | KLB BK IV. PP 130-1 | |

**BIOLOGY SCHEMES OF WORK ALFAROUQ SECONDARY SCHOOL YEAR : 2025**

**CLASS: FORM IV TERM 3 MR. ABDIRAHMAN NOOR**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 1-5 | SUPPORT & MOVEMENT IN PLANTS AND ANIMALS | Cardiac muscles. | By the end of the lesson, the learner should be able to:<br>Describe features of smooth muscles. | Examine diagrams of smooth muscles;<br>Brief discussion;<br>Topic review. | Illustrative diagrams. | KLB BK IV. PP 130-1 | |
| 10 | **End Term Exam and Closing** | | | | | | | |