**MINSTRY OF GENERAL EDUCATION**

**SOUTHERN PROVINCE**

SCHEMES OF WORK

**SUBJECT**: INT-SCIENCE

**GRADE**: 5 **TERM**:1 **YEAR**: 2018

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| WEEK | TOPIC/CONTENT | GENERAL OUTCOMES | METHODS | T/L RESOURCES | REFERENCE |
| 1 | THE HUMAN BODY  The Heart   * the heart. * Functions of the heart | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * Demonstration * GROUP WORK * Question and answer * Experiment | Model of the human heart  Chart showing the functions of the heart | Syllabus p. 26  Longman grade 5 pupils book p.1- 4 |
| 2 | THE HUMAN BODY  The Heart   * the heart. * Functions of the heart * Assessment | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * Demonstration * GROUP WORK * Question and answer * Experiment | Model of the human heart  Chart showing the functions of the heart | Syllabus p. 26  Longman grade 5 pupils book p.1-4 |
| 3 | THE HUMAN BODY  The Heart   * how to take the pulse. | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * Demonstration * GROUP WORK * Question and answer * Experiment | Clock  Wrist watch | Syllabus p. 26  Longman grade 5 pupils book p.5 |
| 4 | THE HUMAN BODY  Puberty   * male and female parts of the body. | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * Demonstration * GROUP WORK * Question and answer * Experiment | Pictures showing male and female parts of the body | Syllabus p. 27  Longman grade 5 pupils book p. 6 |
| 5 | THE HUMAN BODY  Puberty   * changes that occur at puberty in human beings. | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * Demonstration * GROUP WORK * Question and answer * Experiment | Pictures showing male and female parts of the body | Syllabus p. 27 - 28  Longman grade 5 pupils book p.7 - 10 |
| 6 | THE HUMAN BODY   * changes that occur at puberty in human beings. * Assessment | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * Demonstration * GROUP WORK * Question and answer * Experiment | Pictures showing male and female parts of the body | Syllabus p. 27-28  Longman grade 5 pupils book p. 7- 10 |
| 7 | MID – TERM TESTS  HEALTH   * Fresh Air * importance of good ventilation.ways of providing good ventilation in buildings. * ways of treating a suffocated person. * Assessment | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * test items and marking keys * The fan * Pictures showing ventilators( window, doors, air vents,fans) | Syllabus p. 28  Longman grade 5 pupils book p.11 – 19 |
| 8 | HEALTH  Air and water borne diseases   * common airborne and water borne diseases in Zambia. * symptoms of common air borne and water borne diseases. * how to prevent air and water borne diseases. * assessment | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * Chart showing airborne and water diseases and symptoms | Syllabus p. 28 - 29  Longman grade 5 pupils book p.19 - 23 |
| 9 | Malaria   * causes of malaria. * symptoms of malaria. * ways of preventing and treating of malaria. * Assessment | * Demonstrate an understanding of the basic facts about animals * Develop investigative skills about animals | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * Mosquito net * Mosquito repellants * Condoms from the clinic | Syllabus p. 29  Longman grade 5 pupils book p.24 -27 |
| 10 | HIV and AIDS and STIs   * ways in which STIs and HIV are transmitted. * ways of preventing the spread of HIV and STIs. * care and treatment for AIDS patients. * Assessment | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | Condoms  Razor blades  injections | Syllabus p. 29  Longman grade 5 pupils book p.28 - 31 |
| 11 | HEALTH  Harmful Substances and their effects   * substances which are harmful to the human body. * harmful effects of substance abuse on the body. * effects of drinking alcohol | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals * Develop knowledge, values and positive attitudes about materials and energy * Demonstrate investigative skills about materials and energy | * study tours * GROUP WORK * Question and answer | * Chart showing harmful drugs/substances | Syllabus p. 30  Longman grade 5 pupils book p.36 - 42 |
| 12 - 13 | END OF TERM 1 TESTS | | |  |  |

**NB: FOR MIDTERM , TESTTWO SUBJECTS PER DAY AND TEACH THE OTHER SUBJECTS THAT APPEAR ON THE TIME TABLE THAT DAY.**

**MINSTRY OF GENERAL EDUCATION**

**SOUTHERN PROVINCE**

SCHEMES OF WORK

**SUBJECT**: INT-SCIENCE

**GRADE**: 5 **TERM**: 2 **YEAR**: 2018

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| WEEK | TOPIC/CONTENT | GENERAL OUTCOMES | METHODS | T/L RESOURCES | REFERENCE |
| 1 | THE ENVIRONMENT  Soil   |  | | --- | | * importance of water in the soil. | | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Different samples of soil * Fertilizers | Syllabus p. 31  Longman grade 5 pupils book p. 43- 63 |
| 2 | THE ENVIRONMENT  Soil   |  | | --- | | * ways in which water can be retained in the soil. | | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Different samples of soil * Fertilizers | Syllabus p. 31  Longman grade 5 pupils book p. 43- 63 |
| 3 | THE ENVIRONMENT  Soil   |  | | --- | | * drainage rates of soils. |  * Assessment | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Different samples of soil * Fertilizers | Syllabus p. 31  Longman grade 5 pupils book p. 43- 63 |
| 4 | THE ENVIRONMENT  Fertilizers   * organic and inorganic fertilizers. | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Different samples of soil * Fertilizers | Syllabus p. 31  Longman grade 5 pupils book p. 43- 63 |
| 5 | THE ENVIRONMENT  Fertilizers   * how to prepare compost manure. | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Different samples of soil * Fertilizers | Syllabus p. 31  Longman grade 5 pupils book p. 43- 63 |
| 6 | THE ENVIRONMENT  Fertilizers   * importance of maintaining a supply of composted materials. * advantages and disadvantages of chemical fertilizers in agriculture. | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Different samples of soil * Fertilizers | Syllabus p. 31  Longman grade 5 pupils book p. 43- 63 |
| 7 | MID – TERM TEST   |  | | --- | | **PLANTS AND ANIMALS**  Non Flowering Plants   * different types of non-flowering plants. * use of ferns and fungi. | |  | |  | | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals. | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * TEST ITEMS AND MARKING KEYS * Chart showing non –flowering plants | Syllabus p. 32  Longman grade 5 pupils book p.64 - 71 |
| 8 | Invertebrate Animals   * different types of invertebrate animals. * basic structure of insects. | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals. | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * Chart showing non –flowering plants * Chart showing basic structure of an insect and spider | Syllabus p. 32  Longman grade 5 pupils book p.64 - 71 |
| 9 | |  | | --- | | **PLANTS AND ANIMALS** | |  |  * difference between insects and spiders  |  |  | | --- | --- | | * State ways in which insects are useful |  |  * Assessment | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals. | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * Chart showing non –flowering plants * Chart showing basic structure of an insect and spider | Syllabus p. 32  Longman grade 5 pupils book p.64 - 71 |
| 10 | Pest and Parasites   * common pests and parasites in the local environment. * harm caused by pests and parasites on plants and animals. | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * GROUP WORK * Question and answer * Discussion * Experiments * Field tour | * Chart showing crawling insect pests * Bring actual pests. * Actual pesticides | Syllabus p. 33  Longman grade 5 pupils book p.72 -83 |
| 11 | Pest and Parasites   * how pests and parasites can be controlled using local plant materials and commercial chemicals. * how chemical pesticides can cause harm to the environment * Assessment | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals | * GROUP WORK * Question and answer * Discussion * Experiments * Field tour | * Chart showing crawling insect pests * Bring actual pests. * Actual pesticides | Syllabus p. 33  Longman grade 5 pupils book p.72 -83 |
| 12 - 13 | END OF TERM 2 TESTS | | |  |  |

**NB: FOR MIDTERM , TESTTWO SUBJECTS PER DAY AND TEACH THE OTHER SUBJECTS THAT APPEAR ON THE TIME TABLE THAT DAY.**

**MINSTRY OF GENERAL EDUCATION**

**SOUTHERN PROVINCE**

SCHEMES OF WORK

**SUBJECT**: INT-SCIENCE

**GRADE**: 5 **TERM**: 3 **YEAR**: 2018

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| WEEK | TOPIC/CONTENT | GENERAL OUTCOMES | METHODS | T/L RESOURCES | REFERENCE |
| 1 | |  | | --- | | MATERIALS AND ENERGY  Electricity   * what electricity can do. * sources of electricity Or heat. | | * Develop knowledge, values and positive attitudes about materials and energy. * Demonstrate investigative skills about materials and energy | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks. | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 2 | |  | | --- | | MATERIALS AND ENERGY  Electricity   * electrical appliances used at home, school and in the community. * good and bad conductors of electricity. * uses of good and bad conductors of electricity. | | * Demonstrate an understanding of the basic facts about plants and animals * Develop investigative skills about plants and animals * Develop knowledge, values and positive attitudes about materials and energy.   Demonstrate investigative skills about materials and energy | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 3 | |  | | --- | | MATERIALS AND ENERGY  Electricity   * what electricity can do. * sources of electricity. * electrical appliances used at home, school and in the community. * good and bad conductors of electricity. * uses of good and bad conductors of electricity. * methods of conserving electricity in homes and schools. |   Assessment | * Develop knowledge, values and positive attitudes about materials and energy.   Demonstrate investigative skills about materials and energy | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 4 | Heat Conductors   * Describe what heat is * temperature of human body; boiling water; and air inside and outside the classroom.. | * Develop knowledge, values and positive attitudes about materials and energy.   Demonstrate investigative skills about materials and energy | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks. | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 5 | Heat Conductors   * good and bad conductors of heat. * materials which are good insulators. | * Develop knowledge, values and positive attitudes about materials and energy.   Demonstrate investigative skills about materials and energy | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks. | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 6 | Heat Conductors   * good insulators.   uses of good and bad conductors of heat. | * Develop knowledge, values and positive attitudes about materials and energy.   Demonstrate investigative skills about materials and energy | * Demonstration * GROUP WORK * Question and answer * Experiment * Study tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks. | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 7 | MID – TERM TEST   |  |  | | --- | --- | | **MATERIALS AND ENERGY**  Measuring Matter   |  | | --- | | * Identify instruments used to compare how heavy objects are | | | * Develop knowledge, values and positive attitudes about materials and energy. * Demonstrate investigative skills about materials and energy | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * Test items and marking key * Scales for measuring weight * Measuring cylinders * Beaker * Screws * Pair of scissors * Eureka can | Syllabus p. 37  Longman grade 5 pupils book p.103 - 108 |
| 8 | |  |  | | --- | --- | | **MATERIALS AND ENERGY**  Measuring Matter   |  | | --- | | * Demonstrate the effect of gravity on objects. * Distinguish between mass and weight * Assessment | | | * Develop knowledge, values and positive attitudes about materials and energy. * Demonstrate investigative skills about materials and energy | * study tours * Demonstration * GROUP WORK * Question and answer * Experiment | * Scales for measuring weight * Measuring cylinders * Beaker * Screws * Pair of scissors * Eureka can | Syllabus p. 37  Longman grade 5 pupils book p.103 - 108 |
| 9 | MATERIALS AND ENERGY  Volume   |  | | --- | | * various instruments and apparatus used to measure volume * Measure the volume of liquids. * Measure the volume of various regular and irregular solid objects. |  * Assessment | * Develop knowledge, values and positive attitudes about materials and energy * Demonstrate investigative skills about materials and energy | GROUP WORK   * Question and answer * Discussion * Experiments * Field tour | * Scales for measuring weight * Measuring cylinders * Beaker * Screws * Pair of scissors * Eureka can | Syllabus p. 37  Longman grade 5 pupils book p.103 - 108 |
| 10 | MATERIALS AND ENERGY  Simple Machines   * simple machine. * six kinds of simple machines used in the home and school. | * Develop knowledge, values and positive attitudes about materials and energy * Demonstrate investigative skills about materials and energy | * GROUP WORK * Question and answer * Discussion * Experiments * Field tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 11 | MATERIALS AND ENERGY  Simple Machines   * use of simple machines in doing work * Assessment | * Develop knowledge, values and positive attitudes about materials and energy * Demonstrate investigative skills about materials and energy | * GROUP WORK * Question and answer * Discussion * Experiments * Field tour | * Electric cable with different colours * Bulbs * Cells/battery * Thermometer * Candle/match sticks | Syllabus p. 34 -35  Longman grade 5 pupils book p. 85 - 98 |
| 12 - 13 | END OF TERM 3 TESTS | | |  |  |