

TWINKLE JUNIOR SCHOOL

INTEGRATED SCIENCE DEPARTMENTAL TOPICAL BREAKDOWN P1 – P7

| PRIMARY ONE | | | | | |
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| NO. | THEME | TOPIC/SUB THEME | MAJOR SUB TOPICS | COVERAGE STATUS | SIGN |
| 1. | Our home | People in our home. | Buildings found at home. | | |
| | | | Uses of things found in the homestead. | | |
| | | | Family | | |
| | | Roles of people in the family. | Activities done in a home. | | |
| | | | Role or duties of mother, father and children at home. | | |
| | | Things found at home. | Things found in a good home. | | |
| | | | Things that make up a good living house. | | |
| | | | Things found in a good house. | | |
| | | | Uses of a house. | | |
| | | | Groups of things found in a home. | | |
| | | | Things found in the kitchen. | | |
| | | | Things found in the bathroom. | | |
| | | | Things found in the sitting room. | | |
| | | | Things found in the store. | | |
| | | | Ways of keeping the home clean and reasons. | | |
| | | | Types of houses and building tools/materials. | | |
| | | | Animals and birds found at home. | | |
| 2. | The human body and health. Weather Accidents and safety. | Parts of the body and their functions. | A diagram showing of a person showing body parts. | | |
| | | | Diagrams of specific body (organs) and their uses. | | |
| | | | Body organs and sense organs. | | |
| | | Personal hygiene. | Meaning of personal hygiene and importance of cleaning the body. | | |
| | | | Things used to clean our body. | | |
| | | | How to keep our bodies clean. | | |
| | | | How to keep our teeth safe. | | |
| | | | Dangers of not cleaning our bodies. | | |

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| | | Diseases | Different diseases in the environment. Non curable diseases in the environment. Common causes of diseases in the environment. How to prevent some diseases. | | |
| 3. | | Types and elements of weather. | Meaning of weather. Elements of weather or weather markers. Types or conditions of weather. The sun, its importance and dangers. Things people use on a sunny day. Water and rain. Things we use on a rainy day. Wind, uses and dangers. Bad weather changes i.e floods, hail stones, drought, lightning and thunder. | | |
| | | Seasons | Activities done during different seasons i.e rainy (wet) and dry (sunny) Garden tools used in different seasons. Care for garden tools. | | |
| | | Managing weather. | Ways of managing weather changes. Sources of water. Harvesting water. How to look after or preserve water. Running water and soil erosion. | | |
| 4. | | Accidents and safety at home. | Dangerous objects which can cause accidents. Cutting objects (diagrams). Piercing objects (diagrams). Common accidents at home. Animals which can bite. | | |

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| | | Accidents and safety on the way to and from school. | Common accidents on the way or road. Causes of accidents on the road. How to avoid accidents on the way to and from school. Safe ways of using the road. How to cross the road. First aid and first aid box or kit. Why do we give first aid? | | |
| | | Accidents at school and in the classroom. | Common accidents at school and in the classroom. Bad things accidents cause to people (effects). How to avoid accidents at school and in the classroom. | | |
| 5. | Food and nutrition. | Names and sources of food. | Diagrams and names of food stuffs. Sources of food. Food taboos. Uses of food. | | |
| | | Uses of food to our bodies. | Classes of food. Sources of different classes of food. Functions of different classes of food to our bodies. | | |
| | | Keeping food safe. | Ways of keeping food safe. Importance of keeping food safe. Dangers of not keeping food safe. Edible and non edible foods. | | |
| 6. | Our environment. | Components of the environment. | Components and importance of things in the environment. Living things and non living things in the environment. Characteristics of living and non living things. Groups of living things. Flowering plants. Uses of plants to people. Uses of flowers, leaves and wood. Ways of caring for plants. | | |

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| | | | Animals and birds (labeled diagrams). Insects (useful and dangerous). Types of animals in our environment i.e. domestic and wild. Animals their young ones, sounds and homes. Changes in animals and birds, reproduction and growth. Animal products and their uses. | | |
| | | Growing plants or crops. | Plants which grow from seeds. Plants which grow from stems. Plants which grow from young ones. Changes in plants. Plants which give us fruits. Plants which give us juice. Plants which give us medicine. Air and wind. Water Activities that damage the environment. Ways of protecting the environment. | | |

PRIMARY TWO

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| 1. | The human body and health. | Parts of the body and their uses. | Body parts (diagrams) Body senses and sense organs. Care for the body organs. | | |
| | | Sanitation | How to promote sanitation. Things used to clean the environment. Importance of keeping the environment clean. Dangers of not keeping the environment clean. | | |
| | | Personal hygiene | How to promote personal hygiene. Things used to clean the body. Oral hygiene Importance of promoting personal hygiene. Dangers of poor personal hygiene. | | |

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| 2. | Food and nutrition. | Classification of food. | Classes of food, sources and their uses. | | |
| | | Good feeding | Balanced diet Importance of good feeding. Dangers of poor feeding. | | |
| 3. | Our environment | Common animals and birds | Domestic and wild animals. Care for domestic animals. Animal products Domestic birds, care and their products. Wild animals, dangers, importance and care for wild animals. | | |
| | | Common insects | Useful and harmful insects and their reproduction. Products from useful insects. Dangers of harmful insects. Care for the insects. | | |
| | | Common plants | Flowering plants Examples of plants Care for the plants Reproduction of plants | | |
| 4. | Accidents and safety | Causes of common accidents in our community | Objects that cause accidents. Examples of common accidents in our community. How to control accidents in our community. | | |
| | | First aid | Why to give first aid. How to give first aid. First aid kit and box. Places where a first aid kit is found. | | |
| 5. | Measures | Seasons | Dry season Activities done during dry season. Wet season Activities done during wet season | | |

PRIMARY THREE

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| 1. | Our environment | Soil | Meaning of soil. | | |
| | | | Components of soil and experiments. | | |
| | | | Types of soil. | | |
| | | | Soil profile. | | |
| | | | Soil formation. | | |
| | | | Uses of soil to people and plants. | | |
| | | Natural changes in the environment. | Natural and artificial changes. | | |
| | | | Types of natural changes in the environment. | | |
| | | | Examples of changes in plants, animals, soil, water and air. | | |
| | | | Changes in the atmosphere (weather) | | |
| | | | Changes in time (seasons) | | |
| | | | Bad natural changes (floods, drought, landslides, earthquake and rusting). | | |
| | | Changes caused by human activities | Managing bad weather changes. | | |
| | | | Man made changes in the environment. | | |
| | | | Artificial changes in water. | | |
| | | | Artificial changes in air. | | |
| | | | Good activities that people do to protect or change the environment. | | |
| | | | Bad activities that change the environment. | | |
| 2. | Our environment and weather | Air and the sun | Air and its components. | | |
| | | | Properties of air. | | |
| | | | Uses of air (specifying components) | | |
| | | | Wind (uses and dangers) | | |
| | | | Air and rusting | | |
| | | | Air and fire or burning or combustion (experiment to show that air /oxygen supports burning) | | |
| | | | The sun (importance of the sun) | | |
| | | | Observing shadows. | | |
| | | | Dangers of the sun. | | |
| | | | Clouds, types, uses and dangers. | | |

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| 3. | Living things (animals) | Water | Sources of water | | |
| | | | Properties of water | | |
| | | | The rain and rain cycle | | |
| | | | Dangers of rain | | |
| | | Managing water | How people spoil water sources. | | |
| | | | How people can protect water sources | | |
| | | Living things | Main groups of living things. | | |
| | | | X-tics of living things. | | |
| | | | Animals (domestic, wild and domesticated animals) | | |
| | | | Classes of animals (mammals, birds, reptiles, amphibians and fish) | | |
| | | | Importance of plants to animals and the vice versa. | | |
| | | | Differences between plants and animals. | | |
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| | | Birds and insects | X-tics of birds | | |
| | | | Groups of birds | | |
| | | | Importance of domestic and wild birds | | |
| | | | Insects | | |
| | | | Dangers and uses of insects | | |
| | | | Groups of insects | | |
| | | | Care for animals, birds and insects. | | |
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| 4. | Living things (plants) | Plants and habitats | X-tics of living things (experiments) | | |
| | | | Wild plants | | |
| | | | Habitats for different plants and animals. | | |
| | | | | | |
| | Parts of a flowering plant | | Examples of flowering plants | | |
| | | | Diagram of a flowering plant. | | |
| | | | Parts of a flower | | |
| | | | Uses of flowers to plants and people. | | |
| | | | Plant stems (types) i.e. upright, underground, climbing, and creeping stems. | | |
| | | | Functions of plants to people | | |
| | | | Leaves (types and functions) | | |
| | | | Photosynthesis | | |
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| | | Crop growing practices | Types of crops (legumes, fruit crops, cereals and vegetable crops) Care for crops Garden tools, their uses and diagrams. Care for garden tools. Crop pests and control. Seeds and germination. Needs of plants. Crop rotation Forests Food hygiene Food preservation and security. The 4fs germ path. How to prevent diseases spread through the 4fs. | | |
| 5. | Our health | Accidents and first aid | Common accidents at home, school and on the way. Other accidents Common causes of accidents at school, home and on the road. First aid box and kit. Reasons for giving first aid. Qualities of a good first aider. Fractures and first aid. Snake bites and first aid. Nose bleeding and first aid. Poisoning and first aid. Dangers of accidents. How to prevent accidents. | | |
| | | Diseases and vectors | Germs and diseases. Breeding places for germs. Types of germs How germs spread Diseases and different ways they spread. Vectors and how they spread diseases. Dehydration | | |

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| | | HIV/ AIDS | Meaning HIV and AIDS. How AIDS spread. Signs and symptoms of AIDS. Ways of caring for AIDS patients. PIASCY messages. | | |
| 6. | Energy | Sources of energy | Different things that use different types of energy. Forms or types of energy. Artificial and natural forms of energy. Sources of natural energy (light, heat, sound, petroleum etc) Uses of different forms of energy. | | |
| | | Saving energy | Saving electricity we use at home or at school. Saving wood energy. Importance of energy. | | |
| | | Dangers of energy | Dangers of electricity. Avoiding electric shocks. Dangers of heat energy. Ways of preventing fire accidents. | | |

PRIMARY FOUR

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| 1. | The world of living things | Plant life | Flowering plants Parts of a flowering plant. Functions of the parts. Roots and osmosis. Stems Leaves, transpiration and photosynthesis. Flowers and pollination. Seeds and germination. Tropisms Uses of plants to people and animals. | | |
| 2. | The world of living things | Growing crops | Growing common annual and perennial crops. Garden tools, uses and care. Crop growing practices. | | |

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| | | | Crop pests and diseases. | | |
| 3. | Our environment | Weather changes around us. | Changes in the atmosphere. | | |
| | | | Elements and types of water. | | |
| | | | The water or rain cycle. | | |
| | | | Weather, uses and care. | | |
| | | | Sample of a weather chart. | | |
| 4. | Human health | Personal hygiene | Ways of keeping our bodies clean. | | |
| | | | Importance of keeping our bodies clean. | | |
| | | | Things used to promote personal hygiene. | | |
| | | | Keeping clothes and beddings clean. | | |
| | | | Dangers of failure to promote personal hygiene. | | |
| 5. | Human health | Our food | Food | | |
| | | | Classes of food and their sources. | | |
| | | | Uses of food in our body. | | |
| | | | Reasons for eating food. | | |
| | | | Deficiency diseases. | | |
| | | | Food contamination. | | |
| | | | Food security. | | |
| | | | Preparing simple dishes. | | |
| 6. | The human body | The major body organs | Formation of organs i.e from a cell to organism. | | |
| | | | Examples of various body organs. | | |
| | | | Organs and their respective functions. | | |
| | | | Positions of body organs in or on the body. | | |
| | | | Care for various body organs. | | |
| | | | Diseases and disorders of body organs. | | |
| 7. | The human body | The teeth | Sets of teeth. | | |
| | | | Types of teeth, shapes, functions and adaptations to their functions. | | |
| | | | Care for our teeth (oral hygiene) | | |
| | | | Diseases and disorders of teeth | | |

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| 8. | Human health | Sanitation | Meaning sanitation. | | |
| | | | How to promote sanitation. | | |
| | | | Importance of promoting sanitation. | | |
| | | | Dangers of poor sanitation. | | |
| | | | Signs of poor sanitation. | | |
| | | | Germs and diseases. | | |
| | | | Types of germs. | | |
| | | | How germs spread. | | |
| | | | Diseases spread by different germs. | | |
| 9. | Human health | Communicable intestinal diseases and worm infestation. | Diarrhoeal diseases. | | |
| | | | Spread, causes, prevention, control and treatment of diarrhoeal diseases. | | |
| | | | Dehydration | | |
| | | | Rehydration | | |
| | | | Intestinal worms | | |
| | | | How worms enter the body and their effects. | | |
| | | | Signs and symptoms and prevention and control of intestinal worms. | | |
| 10. | Human health | Vectors and diseases. | Examples of disease vectors. | | |
| | | | Characteristics of disease vectors. | | |
| | | | Life cycles and habitats of disease vectors. | | |
| | | | Diseases and germs that cause them. | | |
| | | | How vectors spread diseases. | | |
| | | | Prevention and control of vectors. | | |
| 11. | Human health | Accidents, poisoning and first aid. | Common accidents in the community. | | |
| | | | Causes of common accidents. | | |
| | | | Types accidents (injuries) | | |
| | | | Poisoning | | |
| | | | Causes of poisoning | | |
| | | | Types of poisons | | |
| | | | Prevention and control of accidents and poisoning. | | |
| | | | First aid | | |
| | | | Reasons for giving first aid. | | |
| | | | Role and qualities of a good first aider. | | |

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| | | | Fist aid for different types of accidents. | | |
| 12. | The world of living things | Animal life (keeping rabbits) | Rabbitary Reasons for keeping rabbits. External parts of a rabbit. Types and breeds of rabbits. Housing in rabbitary Feeding rabbits. Breeding or reproduction of rabbits. Diseases that attack rabbits. Prevention and control of rabbit diseases. Keeping records on a rabbit farm. | | |
| <p style="text-align: center;">PRIMARY FIVE</p> | | | | | |
| 1. | Science in human activities and occupation. | Keeping poultry and bees. | Types of poultry. External parts of domestic fowls. Types of chicken. Breeds of chicken. Systems of keeping poultry. Management of poultry. Poultry diseases and parasites. Apiculture (keeping bees) Benefits of bees to plants and people. Swarming Housing in apiculture. Harvesting and extraction of honey. Bee farming as a business. | | |
| 2. | Matter and energy | Measurements | Measuring. Mass and weight Capacity and volume Behaviour of objects with water i.e floating and sinking Finding volume and density of objects | | |

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| 3. | Human health | Immunisation | Immunity i.e types, importance and ways of acquiring it. | | |
| | | | Immunisation Vs vaccination | | |
| | | | Immunisable diseases | | |
| | | | Vaccines and administration | | |
| | | | Other immunisable diseases. | | |
| 4. | The human body | Digestive system | Meaning of digestive system. | | |
| | | | Stages of nutrition | | |
| | | | The alimentary canal. | | |
| | | | Types of digestion. | | |
| | | | Description of digestion through the alimentary canal | | |
| | | | Diseases and disorders of the digestive system | | |
| | | | Behaviours and habits that maintain the efficiency of the digestive system. | | |
| 5. | The environment | Soil | Types of soil | | |
| | | | Soil formation | | |
| | | | Components of soil | | |
| | | | Importance of soil | | |
| | | | Soil erosion | | |
| | | | Harmful materials on soil and their effects. | | |
| | | | Soil exhaustion | | |
| | | | Soil conservation | | |
| | | | Soil fertility | | |
| 6. | Matter and energy | Heat energy | Matter | | |
| | | | Properties of matter. | | |
| | | | States of matter. | | |
| | | | Effects of heat on matter | | |
| | | | Changes in states of matter. | | |
| | | | Heat transfer. | | |
| | | | Mixtures | | |
| | | | Forces | | |
| | | | Energy | | |
| | | | Expansion and contraction | | |
| | | | The thermos flask | | |
| | | | Thermometers | | |

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| 7. | Science in human activities and occupation | Crop growing | Types of crops grown | | |
| | | | Caring for crops | | |
| | | | Common crop pests and diseases | | |
| | | | Common tuber crops | | |
| | | | Planting, care and harvesting of tuber crops. | | |
| | | | Storage of tuber crops | | |
| | | | Science oriented clubs (young farmers clubs) | | |
| 8. | The world of living things | Bacteria and fungi | Bacteria (what they are and breeding) | | |
| | | | Nature of bacteria. | | |
| | | | Bacterial diseases in plants and animals. | | |
| | | | Prevention, control and treatment of bacterial diseases. | | |
| | | | Fungi (what they are and examples) | | |
| | | | Harmful and useful fungi | | |
| | | | Fungal diseases in plants and animals. | | |
| | | | Prevention, control and treatment of fungal diseases. | | |
| | | | Facts about bacteria and fungi. | | |
| | | | Comparison of bacteria and fungi (differences and similarities) | | |
| 9. | Managing changes in the environment | Types of changes | Changes in the environment | | |
| | | | Types of changes in plants, animals and atmosphere. | | |
| | | | Importance and effects of changes. | | |
| 10. | Science in human activities and occupation | Keeping goats, sheep and pigs | Goats and sheep keeping | | |
| | | | External parts of goats and sheep | | |
| | | | Breeds of goats and sheep | | |
| | | | Breeding in goats and sheep | | |
| | | | Housing in goats and sheep | | |
| | | | Grazing goats and sheep | | |
| | | | Diseases and parasites of goats and sheep | | |
| | | | Keeping pigs | | |
| | | | Breed of pigs | | |
| | | | Breeding and housing in piggery | | |
| | | | Feeding or grazing pigs | | |

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| | | | Parasites and diseases of pigs | | |
| | | | Starting and managing pigs, goats and sheep projects | | |
| | | | Keeping farm records | | |
| 11. | Human health | Food and nutrition | Breast feeding | | |
| | | | Bottle feeding | | |
| | | | Traditional customs, taboos and beliefs | | |
| | | | Vulnerable groups | | |
| | | | Food consumption patterns in Uganda | | |
| | | | Deficiency diseases | | |
| 12. | Human health | Primary Health Care | Primary Health Care | | |
| | | | Elements and principles of PHC | | |
| | | | How individuals, families and communities promote PHC | | |
| | | | Suitable life styles and health practices | | |
| | | | Caring for people with special needs | | |

PRIMARY SIX

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|----|----------------------------|----------------|----------------------------------------------------------------------|--|--|
| 1. | The world of living things | Classification | Animates and inanimates (living and non living things). | | |
| | | | Vertebrates (x-tics and classification) | | |
| | | | Warm blooded vertebrates i.e mammals and birds. | | |
| | | | Cold blooded vertebrates (amphibians, fish and reptiles). | | |
| | | | Invertebrates (mollusks, arthropods, worms, sponges and echinoderms) | | |
| 2. | Matter and energy | Sound energy | Sound as a form of energy. | | |
| | | | Sources of sound | | |
| | | | How is sound produced | | |
| | | | How sound is stored | | |
| | | | How sound is reproduced | | |
| | | | Properties of sound (pitch, volume, frequency and echoes) | | |
| | | | Speed of sound (how sound travels) | | |

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| | | | The human ear Structure and functions of the parts Ear defects and diseases Care and maintenance of the ear | | |
| 3. | The human body | Circulatory system | Circulation and parts of the circulatory system. The human heart Blood Blood vessels Diseases of the circulatory system Health habits for proper functioning of the circulatory system. | | |
| 4. | Human health | Alcohol, smoking and drugs in society | Alcohol Types of alcohol Production of alcohol Uses of alcohol Effects of alcoholism to individuals, families and communities. Smoking Reasons for smoking and taking alcohol Types of smoking Effects of smoking to individuals, families and communities. Drugs (types and reasons for abusing drugs) Drug dependency and its effects. Life skills for preventing alcoholism, smoking and drug dependency. | | |
| 5. | The world of living things | Classification of plants | Classification of plants Non flowering plants Classification of flowering plants. Structure of a flowering plant. Stems Roots and osmosis Leaves, photosynthesis and transpiration. Flowers, pollination and fertilization. Seeds and germination Tropisms Fruits | | |

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| | | | Dispersal of seeds and fruits | | |
| 6. | Science in human activities and occupation | Keeping cattle | Structure of a cow and a bull. | | |
| | | | Types of cattle | | |
| | | | Breeds of cattle | | |
| | | | Reproduction or breeding in cattle | | |
| | | | Farm practices (deworming, dehorning or disbudding, animal identification, hoof trimming etc) | | |
| | | | Housing and fences in cattle | | |
| | | | Feeding or grazing cattle | | |
| | | | Cattle parasites and diseases | | |
| | | | Cattle products | | |
| | | | Starting and a cattle farm | | |
| | | | Farm records | | |
| 7. | The environment | Resources in the environment | Human basic needs | | |
| | | | Types of resources | | |
| | | | Alloys | | |
| | | | Conservation of resources | | |
| | | | Environmental degradation | | |
| 8. | The human body | Respiratory system | Respiration | | |
| | | | Structure of the respiratory system and functions of the parts | | |
| | | | Breathing | | |
| | | | Gaseous exchange | | |
| | | | Breathing surfaces | | |
| | | | Diseases and disorders of the respiratory system. | | |
| | | | Care for the respiratory system | | |
| 9. | Science in human activities and occupation | Science at home and in our environment | Energy and its forms | | |
| | | | Uses of energy at home | | |
| | | | Housing standards | | |
| | | | Elements of a good home | | |
| | | | Water and sanitation | | |
| | | | Water associated diseases | | |
| | | | Preparation of safe and clean water | | |
| | | | Cleaning clothes. | | |

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| 10. | Human health | Accidents and first aid | Types of accidents | | |
| | | | First aid | | |
| | | | Bruises and wounds or cuts | | |
| | | | Fractures | | |
| | | | Sprain, strain and dislocation | | |
| | | | Burns and scalds | | |
| | | | Fever and convulsions | | |
| | | | Fainting | | |
| | | | Drowning and near drowning | | |
| | | | Foreign bodies | | |
| | | | Poisoning | | |
| | | | | | |
| 11. | Human health | Sanitation | Sanitation | | |
| | | | Types of latrines | | |
| | | | Construction and maintenance of latrines | | |
| | | | Toilets | | |
| | | | Management of toilets | | |
| | | | The sewerage system | | |
| 12. | The human body | Reproductive system | Growth and development | | |
| | | | Types of reproduction | | |
| | | | Puberty and adolescence | | |
| | | | Reproductive organs | | |
| | | | Ovulation, fertilization, conception, implantation and pregnancy. | | |
| | | | Birth | | |
| | | | Diseases of the reproductive system. | | |
| | | | Family planning and child spacing. | | |

PRIMARY SEVEN

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|----|----------------|--------------------------|------------------------------------------------------------|--|--|
| 1. | The human body | Muscular skeletal system | Structure of the human skeleton | | |
| | | | Bones | | |
| | | | Joints | | |
| | | | Muscles | | |
| | | | Functions of muscular skeletal system | | |
| | | | Diseases and disorders of the system | | |
| | | | Posture | | |
| | | | Health habits for maintaining the efficiency of the system | | |

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| 2. | Matter and energy | Electricity and magnetism | Electricity | | |
| | | | Sources and forms of electricity | | |
| | | | The electric circuit | | |
| | | | Electric resistance | | |
| | | | Conductors and insulators | | |
| | | | Electric cells | | |
| | | | Electric appliances | | |
| | | | Transmission of electricity | | |
| | | | Static electricity | | |
| | | | Magnets (types and properties) | | |
| | | | Magnetization | | |
| | | | Demagnetization | | |
| | | | Devices that use magnetism | | |
| | | | How to electricity | | |
| 3. | The environment | Energy resources in the environment | Energy, resource and energy resource | | |
| | | | The sun as an energy resource | | |
| | | | Energy resources from water | | |
| | | | Energy resources from fossils | | |
| | | | Uranium | | |
| | | | Thermal and geothermal energy | | |
| | | | Energy resources from plants | | |
| | | | Energy resources from animals | | |
| | | | Energy resources from wind or air | | |
| | | | Conservation of resources in the environment | | |
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| 4. | Matter and energy | Simple machines and friction | A machine and a simple machine | | |
| | | | Advantages of machines (how machines simplify work) | | |
| | | | Types of simple machines | | |
| | | | Levers | | |
| | | | Slopes or inclined planes | | |
| | | | Wedges | | |
| | | | Screws | | |
| | | | Wheels and axles | | |
| | | | Gear wheels and belt drives | | |
| | | | Pulleys | | |
| | | | Friction in machines | | |
| | | | Friction as a useful force (how to increase friction) | | |
| | | | Friction as a nuisance force (how to reduce friction) | | |

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| 5. | The human body | Excretory system | Excretion | | |
| | | | Excretory organs and products | | |
| | | | The urinary system | | |
| | | | The human skin | | |
| | | | The liver | | |
| | | | The lungs | | |
| 6. | Matter and energy | Light energy | Light as a source of energy | | |
| | | | Sources of light | | |
| | | | How light travels | | |
| | | | Rays and beams | | |
| | | | Effects of light on different materials | | |
| | | | Shadows | | |
| | | | Eclipses | | |
| | | | Planets | | |
| | | | Reflection | | |
| | | | Mirrors | | |
| | | | Periscopes | | |
| | | | Refraction | | |
| | | | Lenses | | |
| | | | The pinhole camera | | |
| | | | The photographic camera | | |
| | | | The human eye | | |
| | | | Comparison of the lens camera and the human eye | | |
| | | | Eye defects | | |
| | | | Eye diseases | | |
| | | | Care of the eye | | |
| | | | Dispersion | | |
| | | | Light spectrum, rainbow and colours. | | |
| 7. | The environment | Interdependency of things in the environment | Environment | | |
| | | | Types and components of the environment | | |
| | | | How plants depend on animals (people) | | |
| | | | How plants depend on other plants | | |
| | | | How plants depend on soil, water, air or wind and the sun. | | |
| | | | How animals depend on plants | | |
| | | | How animals depend on other animals. | | |
| | | | How animals depend on soil, water, | | |

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| | | | air and the sun Food chain and web Agro forestry Crop growing practices Crop pests and diseases Growing trees Harvesting wood Record keeping | | |
| 8. | The community, population and family life | Population and health | Community health, family health and social problems Common sicknesses at home Types of the sicknesses and causes Water associated diseases Air borne diseases Disease that spread through bites Non communicable diseases Nutritional deficiency diseases Hereditary or genetic diseases Body exercises How to avoid sicknesses in a home and community Community health and social problems among young people Anti social behaviours Sex deviations Activities to address health concerns Collecting information and data on human population (demography, housing information and available health services) Health clubs and parades | | |