**MUSTARD SEED NURSERY AND PRIMARY SCHOOL**

**SCHEME OF WORK FOR P.4 SCIENCE TERM I 2024**

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| **WK** | **PD** | **THEME** | **TOPIC** | **CONTENT** | **COMPETENCES** | **METHODS** | **ACTIVITY** | **LIFE SKILLS AND VALUES** | **INSTRUCTIONAL MATERIALS** | **REF** |
| **1**  2  3  4 | **1**  **&**  **2**  3  &  4  5  &  6  1  2  &  3  4  &  5  6  1  &  2  3  &  4  5  &  6  1  &  2 | **WORLD OF LIVING THINGS**  **WORLD OF LIVING THINGS** | **PLANT LIFE**  **PLANT LIFE** | **PLANT LIFE**  **Plants animals**  **-Characteristics of plants**  **-Characteristics of animals**  **-Difference between plants and animals**  **Types of plants**   * Flowering plants * Non flowering plants.   **Flowering plants**   * Definition. * Examples of flowering plants * Parts of a flowering plant. * Functions of each part. * Systems of a flowering plant   **Main parts of a flowering plant**   1. Leaves   - Structure  - Uses of leaves.  - Types of leaves.  - Leaf venation  **Process in leaves**   * Photosynthesis * Transpiration  1. **Stems**   - Types of stems.  - Function of the stem.  - Ways how weak stems  climb others.   1. **Roots**   - Describe roots.  - Functions of roots.  - Types of roots.   1. **Flowers**   - Definition  **-** The structure  - Functions of parts of a  flower.  - Uses of a flower to man  and plants.  **Pollination**   * Definition. * Types of pollination.   -Self pollination  -Cross pollination   * Agents of pollination.   -Wind  -Insects  Animals   * Characteristics of wind and insect pollinated flowers.   **Fertilization**   * Definition. * Where it takes place in a flower. * Reproductive parts of a flower.   \*Pistil  \*stamen  **Seeds**   * Definition * Structure of seeds * Types / classes / groups of seeds. * Functions of seeds.   **Germination**   * Definition * Types of germination. * Conditions necessary for germination. | **Language competence**  The learner:   * Spells the words correctly. * Pronounce the given words correctly.   Subject competences  The **learner**:   * States the types of plants. * Name the parts of a flowering plant. * Discusses the functions of parts of a flowering plant.   **Subject competences**  The learner:   * States the type of stems * Describes the functions of stems and roots. * States the uses of flowers to man and plants.   **Language competence**  The learner:-   * Pronounces the words correctly. * Spells the given words correctly.   **Subject competences**  The learner:   * Defines fertilization. * Identifies the reproductive parts of a flower. * Draws different structures of seeds and the different types of germination.   **Language competences**  The learner:   * Pronounces the given words correctly. * Spells’ and writes the words correctly. * Make correct sentences using the given words.   Subject competences  The learner:  Defines seeds  States different groups of seeds  States the functions of seeds  Language competences  Pronounces the given words correctly  Spells and writes words correctly | -Guided discovery  -Discussion  -Demonstration  -Question and answer.  -Explanation  guided discovery  Guided discussion  question and answer  Guided discussion | -Note taking  -Drawing  -Naming  Answering questions  Defining new terms  Describing the groups of seeds  Drawing  Stating the functions of seeds | Critical thinking.  Problem solving.  Decision making.  Effective communication  Effective communication  Critical thinking  Effective communication | * Prepared chart. * Leaves. * Flowers   Roots  Flowers  Seeds | Comp. Science Pupils book 4.  MK integrated scie pupils bk 4  Comp. sci book 4  Comprehensive sci book 4 |
| 5 | **3**  **&**  **4**  5  &  6  1  &  2  3  &  4  5  &  6 | **WORLD OF LIVING THINGS** | **GROWING CROPS** | **Crops**   * Definition * Common crops grown   \*Maize  \*Sorghum  \*Peas, etc  **Groups of crops**   * Perennial crops. * Annual crops. * Definition and examples of the above groups of crops.   **Garden tools**   * Examples * Uses of each garden tool. * Caring for the garden tools.   **Crop growing practices**  **Land preparation**   * Tools used. * Activities involved in land preparation. * When land is prepared (season)   **Planting materials selection.**   * Why it is done? * Qualities of a good planting material (viable seeds)   **How different crops are planted (propagation)**  **-**By use of bulbs  -By use of rhizomes  **-B**y use of suckers  -By use of stem tubers  **Planting**   * Methods / ways of planting. * Description of the methods. * Advantages and disadvantages of each method. | **Subject competences**  The learner:-   * Identifies common crops grown. * States the groups of crops and explains each. * Identifies garden tools and their uses.   **Language competences.**  The learner:   * Spells, pronounce, reads and write given words correctly.   **Subject competences**  The learner:-   * Identifies tools used in land preparation. * Describes how different crops are propagated or planted. * Identifies methods of planting.   **Language competences**  The learner:-   * Pronounces, spells, reads, writes and makes sentences using the given words. | -Question and answer.  -Discovery  -Inquiry  Demonstration | -Answering question  -Writing  -Demonstration | -Awareness  -Creative  thinking  -Care  Responsibility | * Real objects (plants) * A chart with garden tools. | Comprehensive sci book 4 |
| **6**  **7** | **1**  **&**  **2**  **3**  **&**  **4**  **5**  **&**  **6**  **1**  **&**  **2**  **3**  **&**  **4** | **WORLD OF LIVING THI**  **NGS** | **GROWING CROPS** | **Nursery bed**   * Definition * Crops first planted in a nursery bed. * Define transplanting.   Time of transplanting  **ADVANTANGES AND DISADVANTAGES OF NURSERY BEDS**   * Hardening off   -Activities done during hardening off  **Caring for crops**   * Weeding   \*Definition  \*Examples of weeds  \*Importance  \*Dangers   * Manure * Watering   **Pruning**   * Definition * Tools * Advantages and disadvantages.   **Thinning**   * Definition * Advantages.   **Mulching**   * Definition * Examples of mulches. * Advantages and disadvantages of mulching. | **Subject competences**  The learner:   * Defines a nursery bed. * Identifies crops first planted in a nursery bed. * Discusses ways of caring for crops.   **Language competences**  The learner:-   * Reads and writes the words. * Makes correct sentences using the given words. | Discussion  Question and answer.  Explanation | Drawing a nursery bed  Stating advantages and disadvantages of a nursery bed  Defining new terms  Answering questions  Stating ways of caring for crops | Creative thinking  Care  responsibility | Germinating seeds  Common weeds | Comprehensive sci book 4 |
| **8**  9 | **5**  **&**  **6**  1  &  2  3  &  4  5  &  6  1 | **WORLD OF LIVING THINGS** | **GROWING CROPS** | * Staking * Examples of crops that are staked * Advantages of staking * Gap fitting * **Pests and disease control** * Definition of pests. * Examples of pests. * Effects of pests and diseases. * **Diseases of some crops.** * **Signs of diseases.** * Ways of controlling pests and diseases * **Harvesting** * Definition * When to harvest and why? * Tools used in harvesting. * **Food preservation** * Definition * Methods of preserving food. * **Storage** * Examples of storage pests. * Types of stores. * Qualities of a good store. | **Subject competences**  The learner:-   * Defines a pest. * Gives examples of pests. * Discusses ways of controlling pests and disease.   **Language competences**  The learner:   * Pronounces, spells, reads the given words correctly.   **Subject competences**  The learner:-   * Identifies examples of storage pests. * States the types of stores.   **Language competences**  The learner:-   * Pronounces, spells the words correctly. | Discussion.  Guided discussion | Defining.  Writing.  Reading  Stating ways of preserving food | Responsibility  Concern.  Honesty. | Hoe  Panga  knife | Comprehensive sci book 4 |
|  | **2**  **&**  **3**  **4** | **OUR ENVIRONMENT** | **Weather changes around us.** | * Definition of weather and climate * Types of weather. * Elements of weather * **Weather instruments** * Structures of weather instruments. | **Subjects**  The learner:-   * Describes the changes in weather. * Makes accurate measurements of rainfall. * Uses thermometer to measure temperature. | -Group work.  -Guided discovery.  -Question and answer.  -Guided discussion. | Answering both oral and written questions. | -Effective communication  -Critical thinking  -Creative thinking.  -Problem solving. | Weather chart.  Clinical thermometer  A chart showing clinical thermometer. | Comprehensive book four pg.  Mk.scie Bk 4  Integrated Bk. 4. |
| **10**  **11** | **5**  **&**  **6**  1  &  2  3  &  4  5  6  1  &  2 | **OUR ENVIRONMENT** | **Weather changes around us.** | .**Types of rainfall.**  Relief rainfall  Cyclonic rainfall  Convectional rainfall   * Formation of rain. * Advantages of rain and disadvantages.   **Sunshine**   * Advantages and dangers of sunshine.   **Cloud cover**   * Types of clouds and their characteristics. * Advantages of clouds.   **Wind**   * Defnition. * Instrument used to measure. * Advantages of wind.   **Humidity:**   * Definition. * Instrument used to measure. * Advantages of humidity.   **Atmosperic pressure**   * Definition. * Causes. * Instrument used.   **Temperature**   * Definition * Instrument used * Types of thermometer.  1. **Clinical thermoter**.   - Structure.  - Liquid used and reasons why they are used.  - Normal body temperature of  both scales.   1. Minimum and miximum **thermometer.**   - Structure. | * Draws a simple weather chart. * Names the parts of thermometer.   Languages.  The learner:-   * Explains orally the water cycle. * Pronounce, spell and write parts of a clinical thermometer. | Guided discussion  Question and answer  guided discussion | stating types of weather  describing the formation of rainfall  Describing the types of rainfall  defining temperature  stating types of thermometer | -Self-awareness.  -Pre diction  Critical thinking  Self awareness | Chart showing types of weather  Thermometer | Comprehensive sci book 4  Comprehensive sci book 4 |
|  | **3**  **&**  **4**  5  &  6 | **HUMAN HEALTH** | **Personal Hygiene** | **Personal hygiene.**   * Definition. * Ways of keeping our body clean. * Items used in keeping our bodies clean.   **How to keep things at home clean. e.g**  \* Bedroom  \* Beddings  \* Kitchen   * Importance of keeping our bodies clean.   \* Remove germs.  \* Remove dirt.  \*Avoid bad smell.  \* Keep health.  \* Be smart. | **Subject:**  The learner should be able to:-   * Define personal hygiene. * State ways of keeping our bodies clean. * Give the importance of personal hygiene. * Demonstrate clean body activities.   **Language.**   * Spell the words correctly. * Pronounce the words correctly. * Write the words in correct spelling. | -Discussion.  -Discovery  -Demonstration  -Observation  Question and answer. | -Combing hair.  -Brushing teeth.  -Washing the face.  -Cutting finger nails short. | -Appreciation.  -Caring.  -Responsibility  -Self esteem  -Assertiveness | - Comb  - Water  - Tooth paste.  - Tooth brush.  - Nail cutters. | MK. Intergrated primary Science Bk. |