**Outline (Science)**

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| **Domain** | **Learning Contents** | **Activities** | **Skills/Capacities to be nurtured** | **No. of Periods** |
| 1. **Subject Teaching Objectives** | The Nature of Science |  |  | 1 |
| The Philosophy of Science in Primary School |  |  | 1 |
| Objectives of Primary Science Teaching   * Explanation * Sample lessons , activities | Observing primary Textbooks |  | 2 |
| Expected outcomes  Grade wise objectives |  |  | 2 |
| 1. **Curriculum Structure** | * 5 Strands * G1, G2, G3, G4, G5 |  | Knowledge of curriculum framework | 4 |
| Curriculum structure   * G1 to G5 * Linkage among units * Monthly Syllabus ( Annual Plan) | Observing primary textbooks |  | 3 |
| 1. **How Children Learn in Science subject** | Background Theories for Science learning   * Inquiry based Learning * Problem solving |  | Responding to students’ learning styles and needs | 6 |
| 1. **How to support students’ learning** | The Principles of Teaching and Learning applicable to an inquiry-based learning in primary school   * Teaching Learning Principles guided development of the primary science lessons * 5 steps of Teaching Learning activities of textbook | Observing primary textbooks and teachers’ guides | Applying appropriate teaching methods | 4 |
| * Science Process and Thinking Skills * Teaching Strategy for Practicing observing skills   (G1 – Things around us: Children go out the school yard. They use their sense to observe the surroundings)   * Teaching Strategy for Practicing observing skills and comparing skills   (G2 – Comparing Plants)   * Teaching Strategy for practicing observing, comparing, measuring and relating skills.   (G3 – Factors that affect weather)   * Teaching Strategy for Practicing observing, comparing, measuring, relating and critical thinking skills.   (G4 – Ability to expand )   * Teaching Strategy for Practicing observing, comparing, measuring, relating, critical thinking and controlling conditions skills.   (G4 – Force and Motion) | Observing primary textbooks and teachers’ guides   * Practice Teaching in Peers | Mastery of subject matter  Planning  Applying appropriate teaching methods  - Teaching and Learning Materials  -Classroom Management | 19 |
| Lesson planning and improvement |  |  | 5 |
| 1. **Assessment** | What is assessment?  Why assess students?  How can assess students fairly?  Types of the assessment used in primary Science lessons. |  | Assessment, Record Keeping and Remedial Measures | 4 |
| How to apply test items |  |  | 2 |
| How to develop test items |  |  | 3 |
| Total | | | | 56 |