**Learning Unit**

**The Department of Science Level of Students: M. 2**

**Subject Code: SC20203 Subject: Universal Science 3**

**Number of Credit: 1.0 Time: 40 Periods**

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| **Learning Unit** | **Time/ hours** | **Learners’ Key Competencies - Activities** | **Teaching Materials** | **Evaluation Tools** |
| **1. Measurement of Substances**  1.1 Physical Quantities  1.2 Measurement of Length  1.3 Measurement of Time  1.4 Measurement of Area and Volume  1.5 Measurement of Mass and Weight | **10**  2  2  2  2  2 | **Learners’ Key Competencies**  thinking capability  problem solving capability  scientific process, and scientific skills  **Activities**  5E Model | 1. Textbook 2. Supplementary Sheets 3. Work sheets 4. PowerPoint Presentation 5. Websites 6. Learning Resources Centre 7. Laboratory Apparatus | 1. Quizzes 2. Tests 3. Exercises 4. Concept Mapping 5. Observation form 6. Behavior   Observation |

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| **2. Forces**  2.1 Force and Motion  2.2 Types of Forces  2.3 Friction  2.4 Gravitational Force 2.5 Electric Force 2.6 Magnetic Force 2.7 Pressure , Buoyancy, Sinking and Floating  2.8 Torque and Rotation  2.9 Equilibrium and Restoring Force 2.10 Vibration and Sound  2.11 Simple Machines | **20**  1  1  1  1  2  2  2  2  2  2  4 | **Learners’ Key Competencies**  thinking capability  problem solving capability  scientific process, and scientific skills  **Activities**  5E Model | 1. Textbook  2. Supplementary Sheets  3. Work sheets  4. PowerPoint Presentation  5. Websites  6. Learning Resources Centre  7. Laboratory Apparatus | 1. Quizzes  2. Tests  3. Exercises  4. Concept Mapping  5. Observation form  6. Behavior  Observation |

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| **3. Geology**  3.1 Internal Structure of the Earth  3.2 Erosion of the Earth’ Surface  3.3 Soil  3.4 Petroleum  3.5 Water Cycle | **10**  2  2  2  2  2 | **Learners’ Key Competencies**  thinking capability  problem solving capability  scientific process, and scientific skills  **Activities**  5E Model | 1. Textbook  2. Supplementary Sheets  3. Work sheets  4. PowerPoint Presentation  5. Websites  6. Learning Resources Centre  7. Laboratory Apparatus | 1. Quizzes  2. Tests  3. Exercises  4. Concept Mapping  5. Observation form  6. Behavior  Observation |