**Learning Unit**

**The Department of Science Level of Students: M. 3**

**Subject Code: SC20206 Subject: Universal Science 6**

**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. Light**  1.1 How We See Things  1.2 Lenses and Optical Instruments  1.3 The Brightness of Light and Eye Damage | **10**  4  4  2 | **Learners’ Key Competencies**  thinking capability  problem solving capability  scientific process, and scientific skills  **Activities**  5E Mode | 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. Mind-map 5. Observation form |
| **2. Astronomy**  2.1 Why Planets Orbit the Sun  2.2 How Seasons are Caused  2.3 Plases of the Moon  2.4 Moonrise , Moonset and Tides 2.5 Space Technology | **10**  2  2  2  2  2 |
| **3. Chemical Substances**  3.1 Chemical Reactions  3.2 Chemical Equations and Conservation of mass  3.3 Endothermic and Exothermic Reactions 3.4 Acidsand Bases3.5 Some Important Chemical Reactions  3.6 Solving Everyday Problems with Chemical Reactions  3.7 Ceramics , Polymers and Composite Materials | **20**   4  4  2  4  2  2  2 |