**GLOW SHINE ACADEMY SECONDARY SCHOOL**

**Khairahani – 08 , Chitwan**

**Terminal planning**

Class: Five Subject :Science Terminal: First

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| Sn | Unit | Lesson | Objectives | New words | Possible questions | Project work | Teaching  Materials |
| 1 | 1 | Scientific learning | • Define scientific learning.  To know about observation, experiment with its importance  To know about measurement with its importance.  To convert bigger unit into smaller unit of measurement.  To draw schematic diagram of lab instruments. | Observation, Sublimation, Inquiry,Research, demonstrate etc. | 1.What is scientific learning?  2. Why experiment is important in learning science?  3. Draw a schematic diagram of Beaker ,measuring cylinder ,funnel etc. | Take a measuring cylinder and irregular stone and find its volume by liquid displacement method. | Lab instruments like Beaker, measuring cylinder funnel ,test tube etc. |
| 2 | 6 | Matter | •To identify the states of matter with examples.  To know about melting ,freezing , evaporation and sublimation process.  To find the molecular arrangements of solid ,liquid and gas.  To separate the give mixture. | Sublimation, condensation, molecules, sublimate , mixture etc. | 1.What is matter? Write its state.  2. What is change of state of matter? Give example.  3. What is sublimation ?  4. Why air is a matter? Justify it.  5. The ponds get dry in summer season. Why? | Show the change of state of matter by taking ice cube and present in your classroom | 2/2 examples of solid ,liquid and gas state of matter, related video etc. |

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| Sn | Unit | Lesson | Objectives | New words | Possible questions | Project work | Teaching  Materials |
| 1 | 2 | Information and communication technology | • To know about information and communication.  To know about the means of communication.  To know about ms word .  To know about ways of communication.  To know about the function of shortcut keys. | Gesture, communication, animation , periodicals etc. | 1.What is information?  2. What is communication?  3. What are the means of communication?  4. Write the steps to insert shapes in documents.  5. Write the steps to save ms word document. | List the name of the apps that you use frequently in your smartphone. | RAM , motherboard, keyboard, mouse etc. |
| 2 | 7 | Energy in daily life | •To define energy and it’s sources.  To define sound energy and it’s source.  To know about negative impact of sound pollution.  To know about the healthy measures to control sound pollution.  To know about electricity and it’s Source.  To know about open and closed circuit. | Circuit, wave , Renewable, consumption, circuit , electrons, hydroelectricity etc. | 1.What is energy? Write it’s type.  2. What are the sources of sound energy?  3. What are the negative impacts of sound pollution?  4. What are the control measures to control sound pollution?  5. What is electricity? Write it’s Source.  6. Write any two difference between open and close circuit. | Take a wire, battery and bulb and demonstrate the open and close circuit in your classroom with the help of your science teacher. | Sources of sound , wire , battery , bulb , related videos etc. |

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| Sn | Unit | Lesson | Objectives | New words | Possible questions | Project work | Teaching  Materials |
| 1 | 3 | Living organism and environment. | • To define living organism and environment   * To know about energy and energy crisis. * Identify the uses of heat and light energy for animals and plants . * To know the negative impacts of misuse of energy. | Crisis, windmill , conservation , misuse , renewable etc. | 1.What are living organisms?  2. What is environment?  3. Why living organism need energy?  4. What are the uses of light and heat energy for the animals and plants?  5. What are the negative impacts of misuse of energy? | Make a module of solar cooker in the consultation with your science teacher.. | Different related videos and field visit. |
| 2 |  | Classification of living organism. | * To know the importance of classification. * To know about monocot and dicot plants. * To know about the characteristics of vertebrates. * To know about the functions of different parts of a plants. | Cotyledons, classification, corolla , calyx , crawl etc. | 1.What is classification? Why it is important.  2. Write any two difference between monocot and dicot plants with examples.  3. What are the different parts of a flower?  4. What are the functions of roots?  5. Draw a picture of seed and label it. | Collect different plants around you and make a herbarium. | Different plants , different examples of monocot and dicot seeds , related videos etc. |

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| Sn | Unit | Lesson | Objectives | New words | Possible questions | Project work | Teaching  Materials |
| 1 | 5 | Life process | • To define a life process .   * To know about importance of circulatory , respiratory and digestive system . * To know about the difference between living and non living things on the basis of life process. | Respiration, circulation , veins , capillaries etc. | 1.What is life process?  2. What are the activities of life process of animals?  3. What is circulation of blood ? What are the organs involved in circulatory system?  4. What is digestion ? Why it is important?  5. What is photosynthesis? Why it is important for animals? | Collect the pictures of life process of different animals and plants and paste in your science wall. | Different related videos and field visit. |
| 2 | 8 | The earth and space. | * To know about solar system, planets and moon. * To know about revolution of earth in elliptical orbit. * To know about the phases of moon. | Phases, axis , orbit , elliptical, celestial body , satellite etc. | 1.What is solar system ?  2. What are the names of eight planets of the solar system ?  3. What is axis and orbit?  4. Why moon is called natural satellite of the earth ?  5. What are Planets?  6 . Define new moon and full moon. | Make a collage on the revolution of earth in elliptical orbit. | Related videos . |

Class: Five Subject :Science Terminal: Annual