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| **DAILY LESSON PLAN**  **ADDITIONAL MATHEMATICS FORM 4** | | | |
| **CLASS** |  | **DAY** | Choose an item. |
| **WEEK** | Choose an item. | **TIME** |  |
| **DATE** | Click or tap to enter a date. | **DURATION (minutes)** |  |
| **LEARNING AREA** | Algebra | | |
| **UNIT/TOPIC** | Functions | | |
| **CONTENT**  **STANDARDS** | 1.1 Functions | **LEARNING STANDARDS** | 1.1.1, 1.1.2, 1.1.3 |
| **LEARNING OBJECTIVES** | **At the end of learning, students will be able to:**   * Explain function using graphical representations and notations. * Determine domain and range of a function. * Determine the image of a function when the object is given and vice versa. | | |
| **ACTIVITY** | **Starter:**  Teacher explains the learning contents using PPT Interaktif Chapter 1. Teacher explains example of questions to students.  **Activity:**   1. Students are divided into four groups. 2. Each group is given a piece of the worksheet.   Scan the QR code or surf the link to get the worksheet.  <https://qr.pelangibooks.com/?u=vjx7OZpn>   1. In group, students write the domain and range of each graph in the worksheet. 2. Distribute the worksheet in clockwise direction so that each member can write the answer and do correction. 3. Teacher checks the output of each group and explains the correct answers.   **Closure:**   1. Teacher gives exercises to students and discusses all answers. 2. Teacher gives lesson conclusions to students. | | |
| **REFLECTION** | Students were able to achieve the learning objectives successfully.  Students were able to achieve the learning objectives with guidance.  Students were not able to achieve the learning objectives. | | |

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| **WEEK** | Choose an item. | **TIME** |  |
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| **LEARNING AREA** | Algebra | | |
| **UNIT/TOPIC** | Functions | | |
| **CONTENT**  **STANDARDS** | 1.2 Composite Functions | **LEARNING STANDARDS** | 1.2.1, 1.2.2, 1.2.3 |
| **LEARNING OBJECTIVES** | **At the end of learning, students will be able to:**   * Describe the outcome of composition of two functions. * Determine the composite functions. * Determine the image of composite functions given the object and vice versa. | | |
| **ACTIVITY** | **Starter:**  Teacher explains the learning contents using PPT Interaktif Chapter 1.  **Activity:**   1. Teacher explains example of questions to students. 2. Teacher gives few questions to students. 3. Teacher chooses few students as representative to show the answers obtained to the class. 4. Teacher guides students if the answer obtained is false.   **Closure:**  Teacher gives exercises and final answers to students as homework. | | |
| **REFLECTION** | Students were able to achieve the learning objectives successfully.  Students were able to achieve the learning objectives with guidance.  Students were not able to achieve the learning objectives. | | |

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| **CLASS** |  | **DAY** | Choose an item. |
| **WEEK** | Choose an item. | **TIME** |  |
| **DATE** | Click or tap to enter a date. | **DURATION (minutes)** |  |
| **LEARNING AREA** | Algebra | | |
| **UNIT/TOPIC** | Functions | | |
| **CONTENT**  **STANDARDS** | 1.2 Composite Functions | **LEARNING STANDARDS** | 1.2.4, 1.2.5 |
| **LEARNING OBJECTIVES** | **At the end of learning, students will be able to:**   * Determine a related function given composite function and another function. * Solve problems involving composite functions. | | |
| **ACTIVITY** | **Starter:**  Teacher gives few questions about the topics that have been learning. Teacher explains the learning contents.  **Activity:**   1. Divides students into few groups. 2. Teacher gives few different questions to each group. 3. Each member of group discusses to solve the question. 4. Representative from each group explains the answer obtained in the class. 5. Teacher gives the correct answers.   **Closure:**  Teacher gives exercises and the final answers to students as homework. | | |
| **REFLECTION** | Students were able to achieve the learning objectives successfully.  Students were able to achieve the learning objectives with guidance.  Students were not able to achieve the learning objectives. | | |

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| **CLASS** |  | **DAY** | Choose an item. |
| **WEEK** | Choose an item. | **TIME** |  |
| **DATE** | Click or tap to enter a date. | **DURATION (minutes)** |  |
| **LEARNING AREA** | Algebra | | |
| **UNIT/TOPIC** | Functions | | |
| **CONTENT**  **STANDARDS** | 1.3 Inverse Functions | **LEARNING STANDARDS** | 1.3.1, 1.3.2, 1.3.3 |
| **LEARNING OBJECTIVES** | **At the end of learning, students will be able to:**   * Describe inverse of a function. * Make and verify conjectures related to properties of inverse functions. * Determine the inverse functions. | | |
| **ACTIVITY** | **Starter:**  Teacher explains learning contents. Teacher explains example of questions to students.  **Activity:**   1. Divide students into few groups. 2. Each group is given a piece of worksheet.   Scan the QR code or surf the link to get the worksheet.  <https://qr.pelangibooks.com/?u=bMMRefx4>   1. Discuss in group. 2. Present the answers of each group, identify the difference of answers between groups. 3. Teacher provides the correct answers.   **Closure:**  Teacher gives exercises and the final answers to students as homework. | | |
| **REFLECTION** | Students were able to achieve the learning objectives successfully.  Students were able to achieve the learning objectives with guidance.  Students were not able to achieve the learning objectives. | | |