**Chapter 1 Lesson 8: Subtraction Strip Boad**

**Day 1: Sunday**

**Presentation (5 minutes):**

* **Objective:** Introduce subtraction concepts using various manipulatives.
* **Activity:**
  + Present subtraction visually using simple problems on a PowerPoint slide.
  + Demonstrate the use of number rods, colored beads, and the strip board for subtraction.
  + Explain how subtraction represents taking away and finding the difference.
* **Materials:**
  + Number rods (1 to 10).
  + Colored beads.
  + Subtraction strip board.

**Structure:**

* **Introduction (5 minutes):**
  + The teacher explains subtraction, how to model it with number rods, beads, and the strip board.
  + Briefly introduce the activities at each station.
* **Workstation Rotations (35 minutes):**
  + **Station 1: Subtraction with Number Rods**
    - **Materials:** Number rods (1 to 10), subtraction operation cards.
    - **Student Role:** Model subtraction problems using rods, physically remove rods to find the difference.
    - **Teacher Role:** Ensure understanding of subtraction concept and provide feedback.
  + **Station 2: Subtraction with Number Rods and Card Arrangement**
    - **Materials:** Number rods (1 to 10), subtraction operation cards.
    - **Student Role:** Match rods to numbers, subtract smaller rod from larger rod, record the difference.
    - **Teacher Role:** Monitor matching and understanding of the process.
  + **Station 3: Subtraction with Colored Beads**
    - **Materials:** Colored beads, subtraction operation cards, separator.
    - **Student Role:** Use beads to represent numbers, take away beads to find the difference.
    - **Teacher Role:** Assist with counting and using the separator.
  + **Station 4: Subtraction with Colored Beads and Card Arrangement**
    - **Materials:** Colored beads, subtraction operation cards, separator.
    - **Student Role:** Match beads to numbers, use separator to find the difference, record it.
    - **Teacher Role:** Oversee bead arrangement and guide in using the separator.
  + **Station 5: Subtraction with Strip Board**
    - **Materials:** Subtraction strip board, subtraction operation cards.
    - **Student Role:** Use the strip board to model subtraction problems and find the difference.
    - **Teacher Role:** Demonstrate and ensure correct use of the strip board.

**Turn-Taking:**

* Students rotate every 7 minutes.
* Teacher ensures smooth transitions and equitable participation.

**Review & Wrap-Up (5 minutes):**

* Brief discussion on activities and key concepts learned at each station.

**Day 2: Monday**

**Presentation (5 minutes):**

* **Objective:** Introduce subtraction concepts using various manipulatives.
* **Activity:**
  + Present subtraction visually using simple problems on a PowerPoint slide.
  + Demonstrate the use of number rods, colored beads, and the strip board for subtraction.
  + Explain how subtraction represents taking away and finding the difference.
* **Materials:**
  + Number rods (1 to 10).
  + Colored beads.
  + Subtraction strip board.

**Structure:**

* **Introduction (5 minutes):**
  + The teacher explains subtraction, how to model it with number rods, beads, and the strip board.
  + Briefly introduce the activities at each station.
* **Workstation Rotations (35 minutes):**
  + **Station 1: Subtraction with Number Rods**
    - **Materials:** Number rods (1 to 10), subtraction operation cards.
    - **Student Role:** Model subtraction problems using rods, physically remove rods to find the difference.
    - **Teacher Role:** Ensure understanding of subtraction concept and provide feedback.
  + **Station 2: Subtraction with Number Rods and Card Arrangement**
    - **Materials:** Number rods (1 to 10), subtraction operation cards.
    - **Student Role:** Match rods to numbers, subtract smaller rod from larger rod, record the difference.
    - **Teacher Role:** Monitor matching and understanding of the process.
  + **Station 3: Subtraction with Colored Beads**
    - **Materials:** Colored beads, subtraction operation cards, separator.
    - **Student Role:** Use beads to represent numbers, take away beads to find the difference.
    - **Teacher Role:** Assist with counting and using the separator.
  + **Station 4: Subtraction with Colored Beads and Card Arrangement**
    - **Materials:** Colored beads, subtraction operation cards, separator.
    - **Student Role:** Match beads to numbers, use separator to find the difference, record it.
    - **Teacher Role:** Oversee bead arrangement and guide in using the separator.
  + **Station 5: Subtraction with Strip Board**
    - **Materials:** Subtraction strip board, subtraction operation cards.
    - **Student Role:** Use the strip board to model subtraction problems and find the difference.
    - **Teacher Role:** Demonstrate and ensure correct use of the strip board.

**Turn-Taking:**

* Students rotate every 7 minutes.
* Teacher ensures smooth transitions and equitable participation.

**Review & Wrap-Up (5 minutes):**

* Brief discussion on activities and key concepts learned at each station.

**Day 3: Tuesday**

**Presentation (5 minutes):**

* **Objective:** Introduce subtraction concepts using various manipulatives.
* **Activity:**
  + Present subtraction visually using simple problems on a PowerPoint slide.
  + Demonstrate the use of number rods, colored beads, and the strip board for subtraction.
  + Explain how subtraction represents taking away and finding the difference.
* **Materials:**
  + Number rods (1 to 10).
  + Colored beads.
  + Subtraction strip board.

**Structure:**

* **Introduction (5 minutes):**
  + The teacher explains subtraction, how to model it with number rods, beads, and the strip board.
  + Briefly introduce the activities at each station.
* **Workstation Rotations (35 minutes):**
  + **Station 1: Subtraction with Number Rods**
    - **Materials:** Number rods (1 to 10), subtraction operation cards.
    - **Student Role:** Model subtraction problems using rods, physically remove rods to find the difference.
    - **Teacher Role:** Ensure understanding of subtraction concept and provide feedback.
  + **Station 2: Subtraction with Number Rods and Card Arrangement**
    - **Materials:** Number rods (1 to 10), subtraction operation cards.
    - **Student Role:** Match rods to numbers, subtract smaller rod from larger rod, record the difference.
    - **Teacher Role:** Monitor matching and understanding of the process.
  + **Station 3: Subtraction with Colored Beads**
    - **Materials:** Colored beads, subtraction operation cards, separator.
    - **Student Role:** Use beads to represent numbers, take away beads to find the difference.
    - **Teacher Role:** Assist with counting and using the separator.
  + **Station 4: Subtraction with Colored Beads and Card Arrangement**
    - **Materials:** Colored beads, subtraction operation cards, separator.
    - **Student Role:** Match beads to numbers, use separator to find the difference, record it.
    - **Teacher Role:** Oversee bead arrangement and guide in using the separator.
  + **Station 5: Subtraction with Strip Board**
    - **Materials:** Subtraction strip board, subtraction operation cards.
    - **Student Role:** Use the strip board to model subtraction problems and find the difference.
    - **Teacher Role:** Demonstrate and ensure correct use of the strip board.

**Turn-Taking:**

* Students rotate every 7 minutes.
* Teacher ensures smooth transitions and equitable participation.

**Review & Wrap-Up (5 minutes):**

* Brief discussion on activities and key concepts learned at each station.

**Day 4: Wednesday**

**Presentation (5 minutes):**

* **Objective:** Strengthen subtraction understanding through hands-on practice.
* **Activity:**
  + Quick review of subtraction concepts using visual aids and manipulatives.
  + Introduce additional practice problems for reinforcement.
* **Materials:**
  + PowerPoint presentation with subtraction problems.
  + Number rods, colored beads, subtraction strip board.
  + *Mind Buzz Math Book* with subtraction problems.

**Structure:**

* **Introduction (5 minutes):**
  + Review and practice subtraction concepts.
* **Workstation Rotations (35 minutes):**
  + **Station 1: Subtraction with Number Rods.**
  + **Station 2:** **Subtraction with Number Rods and Card Arrangement**.
  + **Station 3:** **Subtraction with Colored Beads**.
  + **Station 4:** **Subtraction with Strip Board**.
  + **Station 5: Answering Questions in the Student Book.**
    - **Materials:** *Mind Buzz Math Book*, pencils, crayons.
    - **Student Role:** Complete subtraction exercises in the book.
    - **Teacher Role:** Provide support and review student answers.

**Turn-Taking:**

* Rotate every 7 minutes, ensuring all students participate.

**Review & Wrap-Up (5 minutes):**

* Discuss activities and check understanding of subtraction problems.

**Day 5: Thursday**

**Presentation (5 minutes):**

* **Objective:** Assess understanding and reinforce subtraction concepts.
* **Activity:**
  + Quick review of subtraction concepts.
  + Oral and visual assessment of subtraction understanding.
* **Materials:**
  + PowerPoint presentation with subtraction problems.
  + Number rods, colored beads, subtraction strip board.
  + *Mind Buzz Math Book* with subtraction problems.

**Structure:**

* **Introduction (5 minutes):**
  + Recap subtraction concepts and perform a quick assessment.
* **Workstation Rotations (35 minutes):**
  + **Station 1: Subtraction with Number Rods.**
  + **Station 2:** **Subtraction with Number Rods and Card Arrangement**.
  + **Station 3:** **Subtraction with Colored Beads**.
  + **Station 4:** **Subtraction with Strip Board**.
  + **Station 5: Answering Questions in the Student Book**
    - **Materials:** *Mind Buzz Math Book*, pencils.
    - **Student Role:** Complete subtraction problems in the student book.
    - **Teacher Role:** Provide individual support and assess understanding.

**Turn-Taking:**

* Rotate every 7 minutes, ensuring all students get adequate practice.

**Review & Wrap-Up (5 minutes):**

* Final discussion on subtraction concepts and review of student book exercises.