3rd Grade Math: Subtraction with Regrouping in Hundreds and Thousands

Lesson Objective:

Students will:

- Understand how to subtract multi-digit numbers with regrouping in the hundreds and thousands place.
- Use regrouping to solve subtraction problems involving numbers up to the thousands place.
- Solve real-world subtraction problems that require regrouping.

1. Introduction to Subtraction with Regrouping

What is Subtraction with Regrouping?

- When the digit being subtracted is larger than the digit above it, we regroup (or borrow) from the next place value to make subtraction possible.

2. Steps for Subtracting with Regrouping in Hundreds and Thousands

Step 1: Align the Numbers

- Write the numbers vertically, aligning the digits according to their place value (ones, tens, hundreds, thousands).

Step 2: Subtract from Right to Left

- Always subtract starting from the ones place. Move to the left through tens, hundreds, and thousands.

Step 3: Regroup if Needed

- If the top digit is smaller than the bottom digit, regroup from the next higher place value.

Step 4: Write the Difference

- After regrouping and subtracting each place value, write down the answer.

3. Example Problems

Example 1: Subtracting 3-Digit Numbers

- **Problem:** 432 - 178
  - Write the numbers aligned:

```
432
```

- 178

```csharp
- Subtract the ones place: 2 - 8. Since 2 is smaller than 8, **regroup** 1 from the
```

12 - 8 = 4

```csharp
- Subtract the tens place: 2 - 7. Since 2 is smaller, regroup 1 from the hundreds p
```

12 - 7 = 5

```markdown
- Subtract the hundreds place: 3 - 1 = 2.
- **Answer:** 254
```

Example 2: Subtracting 4-Digit Numbers

- **Problem:** 5,321 - 2,478
  - Write the numbers aligned:

```yaml
5321
```

- 2478

```csharp
- Subtract the ones place: 1 - 8. Regroup 1 from the tens place (2 → 1), making 1 i
```

11 - 8 = 3

```csharp
- Subtract the tens place: 1 - 7. Regroup 1 from the hundreds place (3 → 2), making
```

11 - 7 = 4

```csharp
- Subtract the hundreds place: 2 - 4. Regroup 1 from the thousands place (5 → 4), m
```

12 - 4 = 8

```markdown
- Subtract the thousands place: 4 - 2 = 2.
- **Answer:** 2,843
```

4. Practice Problems

Activity 1: Solve the Following

1. 674 - 289 = ?
2. 921 - 457 = ?
3. 3,002 - 1,759 = ?
4. 6,234 - 4,812 = ?

5. Conclusion and Review

Key Takeaways:

- Always subtract from right to left.
- Regroup when the top digit is smaller than the one below.
- Practice regrouping with larger numbers to build confidence.

Exit Problem:

- Solve: 4,500 - 2,648 = ?