Lesson Plan

Place values - Standard Form - Writing

Third (3) - Math

LEARNING TARGET

- Students will be able to convert numbers from expanded to standard form.
- Students will be able to identify the place value of digits in a number.

LEARNING PROGRESSION

PREREQUISITE SKILL

Place values - Expanded Form - Writing

Place values - Mixed Forms - Writing

EXTENSION SKILL

DURATION

MATERIALS

45 minutes

- Whiteboard and markers
- Pencils and paper
- Examples of numbers in both expanded and standard form
- Practice worksheets

VOCABULARY

- Expanded form
- Standard form
- Place value
- Digit

INTRODUCTION

- 1. Begin the lesson by asking students what they know about expanded and standard form of numbers.
- 2. Define and explain expanded form and standard form of numbers.
- 3. Provide examples of numbers in both expanded and standard form to ensure that students understand the difference between the two forms.

INSTRUCTION

- 1. Explain the process of converting a number from expanded to standard form using the example: 9,000 + 300 + 60 + 4 = 9,364.
- 2. Emphasize the importance of place value in the process of converting from expanded to standard form.
- 3. Demonstrate how to identify the place value of each digit in the number.
- 4. Model the process of writing the standard form of the number using the place value of each digit.

GUIDED PRACTICE

- 1. Give students several examples of numbers in expanded form and ask them to convert them to standard form using the steps you have modeled.
- 2. Monitor the students as they work and provide guidance and feedback as needed.
- 3. Encourage students to work in pairs or small groups and use think-pair-share to discuss their strategies and solutions.

INDEPENDENT PRACTICE

- 1. Give students a worksheet with several examples of numbers in expanded form.
- 2. Instruct students to convert the numbers to standard form on their own.
- 3. Monitor the students as they work and provide feedback as needed.

HOMEWORK

- 1. Assign homework that involves converting numbers from expanded to standard form.
- 2. Encourage students to seek help from their classmates or the teacher if they are struggling.

EXIT TICKET

- 1. Give students several problems to solve independently that involve converting numbers from expanded to standard form.
- 2. Collect the exit cards and use them as a form of assessment to determine students' understanding of the lesson.
- 3. Review the exit cards to identify common areas of difficulty that need to be addressed in the next lesson.

SUMMATIVE

- 1. Give students a quiz or test that includes problems requiring them to convert numbers from expanded to standard form.
- 2. Evaluate the results of the assessment to determine each student's understanding of the material.
- 3. Use the results of the assessment to identify areas where additional instruction or review is necessary.
- 4. Provide feedback to students to help them understand their strengths and areas for improvement.
- 5. Use the assessment results to inform future lesson planning and instructional decisions.

CLOSING

- 1. Summarize the key points of the lesson, emphasizing the importance of understanding place value in the process of converting from expanded to standard form.
- 2. Ask students if they have any questions or if there is anything they would like you to review in the next lesson.

TEACHING TIPS

- Use manipulatives such as place value blocks or chips to help students understand the concept of place value.
- Scaffold practice problems by providing gradual increases in difficulty and providing one-on-one guidance during independent practice.
- Address common misconceptions, such as forgetting to include zeros, by providing additional examples and opportunities for practice.

MISCONCEPTIONS

- Misunderstanding the role of place value in converting between forms, particularly in larger numbers.
- Forgetting to include zeros when converting to standard form, particularly when dealing with numbers with fewer digits.
- Struggling with larger numbers or numbers with decimals, particularly when trying to keep track of the value of each digit.

EXTENSION

- 1. Provide more challenging problems for students who have mastered converting between standard form and expanded form, such as numbers with decimals or larger digits (e.g., millions or billions).
- 2. Have students explore real-world scenarios that require converting between standard form and expanded form, such as measuring distances or calculating large sums of money.
- 3. Encourage students to create their own problems and exchange them with a partner to solve, promoting problem-solving skills and collaboration.

INTERVENTION

- 1. Provide hands-on activities for students who struggle with place value concepts, such as using place value blocks or chips to build numbers.
- 2. Scaffold practice problems for students who need extra support, gradually increasing in difficulty, and provide one-on-one guidance during independent practice.
- 3. Use visual aids, such as posters or anchor charts, to illustrate concepts and provide additional reinforcement.
- 4. Provide opportunities for students to practice converting between standard form and expanded form using manipulatives and other hands-on activities, promoting engagement and understanding.

COMMON CORE STANDARD

3.NBT.A.1 - Use place value understanding to round whole numbers to the nearest 10 or 100.

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