

Lesson Plan

Place values - Expanded Form - Writing

Third (3) - Math

LEARNING TARGET

- Students will be able to identify and write numbers in standard form and expanded form.
- Students will be able to convert numbers from standard form to expanded form and vice versa.
- Students will be able to apply their understanding of place value to convert numbers from standard form to expanded form and vice versa.

LEARNING PROGRESSION

PREREQUISITE SKILL

Place values - Digit Location - Matching

EXTENSION SKILL

Place values - Standard Form - Writing

DURATION

45-60 minutes

MATERIALS

- Whiteboard and markers
- Chart paper and markers
- Place value blocks or chips
- Individual whiteboards and markers
- Worksheets for independent practice

VOCABULARY

- Standard form
- Expanded form
- Place value

INTRODUCTION

1. Begin by asking students what they know about place value and how it relates to numbers.
2. Display a number in standard form, such as 456, and ask students to identify the digits and their respective place values.
3. Introduce the concept of expanded form and explain that it is a way to write numbers as the sum of their place values.
4. Display the same number, 456, in expanded form, such as $400 + 50 + 6$, and ask students to identify the place value of each digit.

INSTRUCTION

1. Review the concept of place value and its relationship to numbers.
2. Define and explain standard form and expanded form to students, using visual aids if necessary.
3. Provide an example of converting from standard form to expanded form, such as $2,306 = 2,000 + 300 + 6$, and explain the process.
4. Provide an example of converting from expanded form to standard form, such as $500 + 80 + 7 = 587$, and explain the process.
5. Model a few more examples of converting between standard form and expanded form, and have students follow along on their individual whiteboards.
6. Discuss common mistakes or misconceptions that students may have when converting between standard form and expanded form, such as forgetting a digit or forgetting to carry over a value.

GUIDED PRACTICE

1. Provide students with place value blocks or chips and have them create a number in standard form.
2. Have students exchange their number with a partner and convert it to expanded form.
3. Walk around the room to observe students' progress and provide support and guidance as needed.
4. Have students come back together as a class and share their numbers and the corresponding expanded form.

INDEPENDENT PRACTICE

1. Provide students with worksheets containing several problems of converting between standard form and expanded form.
2. Encourage students to use the strategies they learned during the instruction and guided practice portions of the lesson.
3. Circulate around the room to provide individual support and guidance as needed.

HOMEWORK

1. Provide students with additional practice problems for homework, along with a reminder to use the strategies they learned during the lesson.

EXIT TICKET

1. Provide each student with an exit card containing a number in standard form or expanded form.
2. Instruct students to convert the number to the opposite form.
3. Collect the exit cards to assess students' understanding of converting between standard form and expanded form.

SUMMATIVE

1. Assess students' understanding of converting between standard form and expanded form by collecting and reviewing their worksheets and exit cards.
2. Identify any areas that may require further instruction or support.

CLOSING

1. Recap the main concepts learned in the lesson, including standard form, expanded form, and place value.
2. Encourage students to continue practicing converting between standard form and expanded form, and remind them to apply their understanding of place value when doing so.
3. Provide positive reinforcement for students' progress and hard work throughout the lesson.

TEACHING TIPS

- Use manipulatives, such as place value blocks, to reinforce the concept of place value.
- Encourage students to explain their thinking and share their strategies with their classmates.
- Provide extra support for students who struggle with place value concepts, such as additional practice problems or one-on-one guidance.

MISCONCEPTIONS

- Students may forget to account for all the digits when converting between standard and expanded form.
- Students may confuse the place value of a digit with the actual value of the digit.
- Students may have difficulty visualizing and understanding the concept of expanded form.

EXTENSION

1. For students who have mastered converting between standard form and expanded form, provide them with more challenging problems, such as converting numbers with decimals or converting larger numbers.
2. Students can create their own problems and exchange them with a partner to solve.

INTERVENTION

1. For students who struggle with place value concepts, provide them with additional hands-on activities, such as using place value blocks or chips.
2. For students who need extra support, provide them with additional practice problems and one-on-one guidance during independent practice.
3. For students who need additional reinforcement, provide them with visual aids, such as posters or anchor charts, that illustrate the concepts of standard form and expanded form.

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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