

# 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

#### EXTENSION SKILL

Place values - Mixed Forms - Writing

#### DURATION

45 minutes

#### MATERIALS

- 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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