

Lesson Plan

Place values - Place Value to thousands - Models

Third (3) - Math

LEARNING TARGET

1. Students will be able to identify the place value of digits in a number up to the thousands using base ten blocks.
2. Students will be able to determine the number represented by a given base ten block model up to the thousands.
3. Students will be able to compare and order numbers up to the thousands using base ten block models.

LEARNING PROGRESSION

PREREQUISITE SKILL

Place values -

EXTENSION SKILL

Place values - Digit Location - Matching

DURATION

60 minutes

MATERIALS

- Base ten blocks (thousands cubes, hundreds flats, tens rods, and ones cubes)
- Whiteboard and markers
- Base ten block worksheet
- Place value chart
- Number comparison chart

VOCABULARY

- Thousands
- Hundreds
- Tens
- Ones
- Digit

INTRODUCTION

1. Begin the lesson by reviewing place value and the concept of using base ten blocks to represent numbers.
2. Introduce the thousands cube, hundreds flat, tens rod, and ones cube and explain how they represent numbers in the thousands, hundreds, tens, and ones places respectively.
3. Demonstrate how to use the base ten blocks to represent a number, such as 3,482, on the whiteboard.
4. Show students a base ten block model and ask them to identify the number it represents.

INSTRUCTION

1. Review the place value chart and how it shows the value of each digit in a number.
2. Demonstrate how to use base ten blocks to represent a number up to the thousands place.
3. Model how to determine the number represented by a given base ten block model by identifying the number of thousands, hundreds, tens, and ones represented.
4. Guide students through several examples of using base ten blocks to represent numbers and determining the number represented by a given base ten block model.
5. Introduce the number comparison chart and demonstrate how to use base ten block models to compare and order numbers up to the thousands place.

GUIDED PRACTICE

1. Provide students with a base ten block worksheet and ask them to represent the given numbers using base ten blocks.
2. Have students determine the number represented by a given base ten block model.
3. Review the answers as a class and provide feedback and clarification as needed.
4. Ask students to compare and order the given numbers using base ten block models.
5. Review the answers as a class and provide feedback and clarification as needed.

INDEPENDENT PRACTICE

1. Provide students with a set of numbers and ask them to represent each number using base ten blocks.
2. Ask students to determine the number represented by a given base ten block model.
3. Provide students with a set of numbers and ask them to compare and order them using base ten block models.
4. Circulate around the room to provide individual support and guidance as needed.

HOMEWORK

1. Assign students an online or written activity where they use base ten blocks to represent numbers and determine the number represented by a given base ten block model.
2. Encourage students to use the place value chart and number comparison chart to help them.

EXIT TICKET

1. To assess students' understanding of using base ten blocks to represent numbers, provide each student with an exit ticket that contains several base ten block models.
2. Instruct students to determine the number represented by each base ten block model.
3. Collect the exit tickets to quickly assess students' understanding of the concept and identify any areas that may require further instruction or support.

SUMMATIVE

1. To assess students' understanding of using base ten blocks to represent numbers and compare/order numbers, provide each student with an assessment sheet that contains several questions.
2. Instruct students to represent each number using base ten blocks, determine the number represented by a given base ten block model, and compare/order numbers using base ten block models.
3. Collect the assessment sheets to evaluate students' understanding of the concept and identify any areas that may require further instruction or support.

CLOSING

1. Recap with the class what they learned in the lesson about determining numbers shown from a base ten block model with numbers up to the thousands.
2. Encourage students to reflect on how they can apply this knowledge in future math lessons and in everyday situations.
3. Provide positive reinforcement to the class for their hard work and progress throughout the lesson.

TEACHING TIPS

- Use a place value chart to help students understand the value of each digit.
- Encourage students to check their work by counting the base ten blocks and verifying their answer.
- Scaffold instruction by starting with smaller numbers and gradually increasing the difficulty.

MISCONCEPTIONS

- Students may struggle to understand the concept of place value and the value of each digit in a number.
- Students may confuse the role of each base ten block and struggle to represent numbers accurately.
- Students may have difficulty comparing and ordering numbers using base ten block models.

EXTENSION

1. For students who have mastered determining numbers using base ten blocks, provide them with more challenging numbers to represent and compare/order. For example, students can work with decimals or negative numbers.
2. Students can practice representing numbers using other models, such as expanded form or word form. This will help students develop a deeper understanding of the relationship between digits and place value.
3. Students can create their own numbers and represent them using base ten blocks for their classmates to determine the number represented. This will help students develop their communication and problem-solving skills.
- 4.

INTERVENTION

1. For students who struggle with fine motor skills or have difficulty manipulating the base ten blocks, provide them with larger or easier-to-grasp manipulatives. Alternatively, provide them with virtual manipulatives that they can use on a computer or tablet.
2. For students who need extra support, provide them with additional practice problems and one-on-one guidance during independent practice. Use visual aids and real-life examples to help students connect the concept to the real world.
3. For students who need additional reinforcement, provide them with visual aids, such as posters or anchor charts, that illustrate the concept of base ten blocks and place value. Use hands-on activities to help students develop their spatial awareness and understanding of place value.

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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