Objective

By the end of this lesson, the student will have a solid understanding of whole numbers and place value. They will be able to identify the value of digits in different positions and demonstrate their knowledge through engaging activities.

Materials and Prep

- Paper and pencil
- Markers or colored pencils
- Whiteboard or a large piece of paper (optional)
- Timer (optional for timed activities)

Before starting the lesson, review the basic concept of whole numbers and the place value system, including units, tens, hundreds, and beyond. Make sure the student is comfortable with counting and writing whole numbers.

Activities

- **Place Value Chart Creation**

  Have the student draw a large place value chart on a piece of paper. Label the columns for units, tens, hundreds, thousands, etc. Then, give them different whole numbers to break down into their place values. For example, for the number 345, they would write 3 in the hundreds column, 4 in the tens column, and 5 in the units column.

- **Number Scavenger Hunt**

  Create a scavenger hunt where the student needs to find objects around the house that represent different whole numbers. For instance, they could find 10 paperclips for the tens place or 100 grains of rice for the hundreds place. They can then present their findings and explain the place value of each item.

- **Place Value Bingo**

  Draw a bingo board with different whole numbers in the squares. Call out specific place values (like "What is the value of the digit in the tens place of 47?") and have the student cover the corresponding number on their board. This can be a fun way to reinforce their understanding of place values!

Talking Points

- "Place value tells us how much a digit is worth based on its position in a number. For example, in the number 472, the '7' is worth 70 because it's in the tens place!"
- "Whole numbers are numbers without fractions or decimals. They start from zero and go up! Can you think of some whole numbers?"
- "When we write a number, each digit has a specific place. The rightmost digit is the units place, then comes the tens place, and then the hundreds place!"
- "If I say the number 1,234, can you tell me what the '2' is worth? It's worth 200 because it's in the hundreds place!"
- "Understanding place value helps us in everyday life, like when we're counting money or measuring things. Can you think of other times we use whole numbers?"