

Lesson Plan: Rounding Whole Numbers to the Nearest 10 or 100

Subject: Mathematics

Grade Level: 3rd

Class Length: 45 minutes

Class Size: 15-24 students

Learning Objectives:

- Students will be able to define rounding.
- Students will be able to identify the place value of digits in whole numbers.
- Students will be able to round whole numbers to the nearest 10 or 100 using place value understanding.
- Students will be able to explain their reasoning when rounding whole numbers.

Materials:

- Whiteboard or projector
- Markers or pens
- Place value chart
- Rounding whole numbers worksheet (provided below)
- Counters or other manipulatives (optional)

Differentiation:

- **For students reading at the kindergarten level:** Provide additional support with place value concepts using manipulatives and visual aids. Break down the steps of rounding into smaller, more manageable chunks. Offer individual assistance as needed.
- **For students with IEPs for Math calculation and cognitive processing:** Provide a modified worksheet with fewer problems and larger numbers. Allow students to use manipulatives or calculators to assist with calculations. Offer frequent breaks and check for understanding throughout the lesson.
- **For students performing at a 5th-grade level:** Challenge students to round larger numbers (e.g., thousands or ten thousands). Encourage them to explain their reasoning in more detail and explore different rounding strategies. Provide opportunities for independent practice and reflection.

Activities:

Entry Ticket (5 minutes):

- Write the following numbers on the board: 35, 72, 148, 299.
- Ask students to estimate which ten each number is closest to.
- Briefly discuss students' responses and review the concept of rounding.

Instructional Activities (25 minutes):

• Review Place Value (5 minutes):

- Use a place value chart to review the value of each digit in a whole number.
- Discuss the difference between the tens place and the hundreds place.
- Emphasize that rounding means finding the nearest ten or hundred to a given number.

• Modeling Rounding (10 minutes):

- Use the numbers from the entry ticket as examples.
- Model how to round each number to the nearest ten and hundred.
- Explain the reasoning behind each rounding decision.
- Encourage students to ask questions and participate in the discussion.

• Guided Practice (10 minutes):

- Provide students with the rounding whole numbers worksheet.
- Work through the first few problems together as a class, explaining the steps involved in rounding.
- Allow students to work independently on the remaining problems, providing support as needed.

Differentiation Activities:

- **For students reading at the kindergarten level:** Provide individual assistance with place value concepts and rounding strategies. Use manipulatives to help them visualize the process.
- **For students with IEPs for Math calculation and cognitive processing:** Offer a modified worksheet with fewer problems and larger numbers. Allow students to use calculators to assist with calculations. Provide frequent breaks and check for understanding throughout the lesson.
- **For students performing at a 5th-grade level:** Challenge students to round larger numbers (e.g., thousands or ten thousands). Encourage them to explain their reasoning in more detail and explore different rounding strategies. Provide opportunities for independent practice and reflection.

Exit Ticket (5 minutes):

- Write the following numbers on the board: 475, 832, 1,599, 2,741.
- Ask students to round each number to the nearest hundred.
- Collect the exit tickets to assess student understanding.

Assessment:

- Observe students' participation in class discussions and activities.
- Collect and review students' completed rounding whole numbers worksheet.
- Review students' exit tickets to assess their understanding of rounding.

Homework/Extension Activities:

- Provide students with additional practice problems for rounding whole numbers.
- Encourage students to play rounding games or create their own rounding challenges.
- Have students research real-world examples of rounding, such as rounding prices in a store or rounding measurements in a recipe.

Handouts on Rounding Whole Numbers (provided below):**Rounding Whole Numbers Worksheet:**

- Round the following numbers to the nearest ten:
 - 35
 - 72
 - 148
 - 299
- Round the following numbers to the nearest hundred:
 - 475
 - 832
 - 1,599
 - 2,741

Additional Resources:

- Khan Academy: Rounding Whole Numbers
- Math Playground: Rounding Games

Note: This lesson plan is a guide and can be adapted to fit the specific needs of your students.

Note: Always adapt lesson plans to fit the specific needs and abilities of your students.