

Rounding to the Nearest Hundred



Common Core in the Classroom Series

The Common Core in the Classroom series was created to provide educators with actual classroom examples of lessons aligned to Common Core standards and objectives.

Pre-Viewing Discussion Prompt:

1. What strategies do you use to help your students learn to round whole numbers?

Lesson Evaluation

Rate the lesson's effectiveness (1 = not effective; 5 = very effective), and use your results to facilitate discussion and reflection.

1. Student learning targets were clearly communicated.
1 2 3 4 5
2. Instructional activities led students toward meeting the objectives.
1 2 3 4 5
3. Students were actively engaged.
1 2 3 4 5
4. Teacher differentiated instruction.
1 2 3 4 5
5. Assessments effectively monitored student progress.
1 2 3 4 5

About this Segment

In Ms. Lynette Ryhal's 3rd grade class at Shuford Elementary in Conover, North Carolina, students round numbers to the nearest hundred using multiple access points.

Post-Viewing Discussion Prompts:

1. If you were the instructional coach observing this classroom, what 2-3 strengths in this lesson could you help the teacher identify?
2. What evidence of critical thinking and problem solving did the students demonstrate?
3. What constructive feedback could you give this teacher?

Reflection Questions

After watching the video, participants can answer the following questions to reflect on new learning:

1. What place value strategies can you use with your students to increase their understanding of rounding numbers?
2. What experiences have you had with adapting a lesson when you find students struggling with comprehension during instruction?
3. How might providing multiple access points to a mathematical concept encourage 21st century skills?

Teacher Lesson Plan

Teacher: Lynette Ryhal	School Name: Shuford Elementary		Location: Conover, North Carolina
Grade Level: 3	Content Area: Math	Lesson Duration: 90 min. (Part 1 of 1)	Lesson Date: Oct. 23, 2013
Summary/ Overview	Students will engage in multiple strategies to round whole numbers to the nearest hundred.		
Skill-Based Objectives & Deliverables	Students will be able to round whole numbers to the nearest hundred. They will be able to use technology, iPads and the Nearpod app, to problem-solve collaboratively.		
Standard(s) Addressed	3.NBT.A.1 Use place value understanding to round whole numbers to the nearest 10 or 100. MP.3 Construct viable arguments.		
Materials & Resources	iPads (one per student pair), Math Expressions, Nearpod app, Edmodo, differentiated activity cards, math journals		
Differentiating the Learning	Students will use previously taught place value strategies like secret code cards and proof drawings to successfully estimate and round numbers. ELL students and more visual learners can look at arc drawings to help them visualize how/why they round, and refer back to a number line. Students ready for increased rigor will estimate the sums in small group stations.		
Procedures	<p>1. Activator (not included in segment due to resource limitations): Students will solve a real-world problem that involves estimating the price of food and decorations for a birthday party. Then, on the Nearpod app, they will list other real-world situations that would require estimating and share their lists with the rest of the class.</p> <p>2. Direct Instruction: To demonstrate how to round, students will look at what two hundreds place values a number is between and underline the hundreds place. They will use their secret code cards to practice rounding to the nearest hundred and review the meaning of place value drawings to help them visualize the learning.</p> <p>3. Partner Work: Students will work in pairs to create place value drawings to help them determine which direction on the number line they should move when rounding. They will also use arc drawings to increase their understanding.</p> <p>5. Closure: Students will write in their math journals and choose the strategy that will most help them to correctly round numbers to the nearest hundred. They will use Nearpod to answer questions, take a quiz, and share learning with the class.</p> <p>6. Small Group Stations (not included due to time restraints): For the second half of class, students will rotate through small group stations to gain extra practice rounding numbers, including creating more proof drawings, journaling about what they're learning through Edmodo, and engaging in iPad games that review place value.</p>		
Assessment	Students will complete a ticket out the door on Nearpod. Teacher will monitor student progress and work with students at her own station in small group time.		

Resources from School Improvement Network

Exploring the Common Core. CC 360 program. <http://www.pd360.com/index.cfm?ContentId=5014>

3rd Grade: 2.NBT.1 & 2, MP.3, 5, 6, & 7 – Using Thousands Charts to Make Sense of Three-Digit Numbers. CC 360 segment. <http://www.pd360.com/index.cfm?ContentId=7515>

Resources for Classroom Practice

Math & Reading Help (n.d.) Teaching students about rounding numbers: Tips and strategies. Retrieved February 6, 2014, from http://mathandreadinghelp.org/teaching_students_rounding_numbers.html

Math Cats. (n.d.). Rounding idea bank. Retrieved February 6, 2014, from <http://www.mathcats.com/grownupcats/ideabankrounding.html>