

First Grade - Real World Experience

Unit 5 - Using place value understanding to add and subtract within 100

Essential Question: "A zoo is getting a new delivery of animals. They can hold 100 animals. Will they have enough space for the new animals?"

Teacher Instructions:

This Real World Experience is completed throughout the 5 week unit. You will implement these activities with corresponding Topics within the unit.

Task 1 - Complete after topic of Show a number with tens and ones.

Task 2 - Complete after topic of Show a number with tens and ones.

Task 3 - Complete after topic of Adding two-digit numbers and multiples of 10.

Task 4 - Complete after topic of Adding two-digit numbers and multiples of 10.

You will need to keep all Task work during the unit for summative assessment. Tasks 1-3 will be used for formative assessment. Task 4 will be used for summative assessment.

1. Read the attached scenario to the class.
2. For Task 1: The map should include at least 3-5 kinds of animals. You may need to guide specific students on the number of animals they choose to put in their zoo. (Remember, they will be adding a multiple of 10 to the number they choose. If you know the student can add more than 100, they would be fine if they chose a larger number.) Be sure to tell the students to draw pictures (circles or dots will be fine) to show the groups of animals. Students should group animals by tens and ones. We do not want them only writing the total for each group of animals because then they will have to add more than 3 addends. Drawing pictures will encourage them to count by tens and ones.
3. For Task 2: You will need to decide how your students will graph their kinds of animals in their zoo. (bar graph, tally chart)
4. For Task 3: Use the attached recording sheet for each student to record how many animals they had from task 1, how many more were delivered (multiple of 10), their equation of their two-digit number and multiple of 10 and their math explanation on whether or not they have enough room in their zoo to fit the new animals.
5. For Task 4: You will need to provide students with materials to create a poster for their zoo. (any type of paper will do)

Posters need to include:

- amount of animals that student started with
 - amount added from the delivery (multiple of 10)
 - total amount of animals after addition
 - if they have enough room for all animals or not and explanation why
- Can include: -zoo name -catchy phrase

Scenario:

Your family bought a zoo. You are in charge of designing and grouping the animals. Your zoo can only hold 100 animals. There are some animals left from the owner before and you will be getting a delivery of new animals soon. You will be creating a zoo map. You need to decide how many animals will be in your zoo by drawing groups of tens and ones. After drawing the map, you will create a graph of the different kinds of animals in your zoo. You will also have to add the total of new animals delivered to the animals that are already there. At the end, you will create a poster to get people to visit your zoo.

Task 1: Students will create their zoo map. Students need to choose a total amount of animals to start with. They need to group by tens and ones and write their total amount on their map.

Task 2: Students need to create a graph using the kinds of animals in their zoo. Tally chart is recommended, but can be what works for your class. (Example: 23 monkeys, 15 bears, 31 lions) Students should be able to create graph independently.

Task 3: Students use recording sheet. Recording sheet is attached to BYOC.

Task 4: Students will create poster with mathematical explanation.

Name: _____ Date: _____

Real World Experience: Scoring Guide

Essential Question: "A zoo is getting a new delivery of animals. They can hold 100 animals. Will they have enough space for the new animals?"

	Solution	Notes
Meeting	Accurately groups animals into tens and ones Accurately adds two-digit number to multiple of 10 Includes numbers to illustrate their thinking when writing their poster to explain their zoo	
Developing	Correctly completes 2 of the 3 proficient criteria.	