# "Lily Pad"



Student Objectives: "I can round numbers to the nearest 10."

Standards to Measure	Mathematical Practices			
3.NBT.1 Use place value understanding	1. Reason abstractly and quantitatively.			
to round whole numbers to the nearest	3. Construct viable arguments and critique the reasoning of others.			
10 or 100.	4. Model with mathematics.			
	6. Attend to precision.			
	8. Look for and express regularity in repeated reasoning.			

### Materials:

- Sidewalk Chalk
- Number line, or 0-99 chart

	State and Rate	Setting	
	Objective: "I can round numbers to the nearest 10."	Objectives and	
		Providing	
	Students rate themselves to the goal (1, 2, 3, 4).	Feedback	
Engage			
Students			
with the			
0001	The teacher will now set the stage for rounding. You can start by asking a series of	Cues. Questions.	
	questions:	and Advance	
Λ	What is estimating?	Organizers	
	Does anyone know why we estimate?	5	
	Discuss and take notes with students.		
Access			
Prior			
Knowledge	The teacher will begin the lesson outside on the sidewalk S/he will introduce	Similarities and	
	the decade numbers. The teacher may have the students count by 10s to 100	Differences	
	As the students are counting the teacher will use sidewalk chalk to draw "Lily	Differences	
	Pads" on the side walk. Be sure to leave enough room in between each decade	Nonlinguistic	
	number to make the tick marks for the numbers in between	Representation	
		Representation	
New	Next, the class will discuss what can go in between the decade numbers. Have	Cues, Questions,	
Information	the groups of students, using sidewalk chalk, record the numbers that are in	and Advance	
	between the decade numbers.	Organizers	
	Measurement between the numbers will probably not be equal. As long as they	Generating and	
	do not skip any numbers it should be fine.	Testing	
		Hypotheses	
		1	

3 <sup>rd</sup> Grade	Lily Pad	Unit 1	
	Explain to the students that today they will learn a new estimation strategy.		
	decade numbers, what do you notice?" Students may respond with things like		
	the "Lilvpad" count by 10s, or they are decade numbers		
	the Elippad, count by 103, of they are decade numbers.		
	When rounding, you are looking for nice numbers like the decade numbers. Ask		
	a student to stand on a number such as 43. The student will locate 43 on the		
	number line and stand there. The teacher will lead the students into a		
	discussion about the nearest decade number. They can even walk/hop to the		
	closest lily pad by counting the steps. Continue this with other students allowing		
	them gain an understanding of the nearest "nice number". Avoid teaching such		
	things as, "5 or higher, and 4 or lower". We want students to conceptualize the		
	rounding and not memorize rules.		
	Students will use the task sheet to answer questions about rounding. Students	Cooperative	
Λ	should use a number line (cut the attached 0-99 chart to create) or use the 0-99	Learning	
	chart to complete the task.	Duovidino	
	Without he also the also and a students according to the terms of feat	Providing	
-	when back in the classroom, give students several numbers to round for	FEEUDACK	
Application		Generating and	
, pp. cation		Testing	
		Hynotheses	
		rypotricses	
		Practice and	
		Homework	
	State and Rate	Setting	
	Objective: "I can round numbers to the nearest 10."	Objectives and	
		Providing	
		Feedback	
	Students rate themselves to the goal (1, 2, 3, 4).		
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Revisit the	Have students write how to round numbers in their own words in their		
Guai	interactive journals.		

# **Evaluation of Students**

#### Formative:

- How do you determine the closest 10?
- Have you found all of the possible answers? Explain.
- When might rounding be useful?
- Can you create an additional number clue?

#### Plans for Individual Differences Intervention:

Students can work with only 2 decade numbers at a time. They could use counters to mark their spots.

**Extension:** Have students practice rounding to the nearest ten using three numbers.



Unit 1

34 rounded to the nearest 10 would be
97 rounded to the nearest 10 would be
68 rounded to the nearest 10 would be
61 rounded to the nearest 10 would be
53 rounded to the nearest 10 would be
85 rounded to the nearest 10 would be
67 rounded to the nearest 10 would be
11 rounded to the nearest 10 would be
3 rounded to the nearest 10 would be
5 rounded to the nearest 10 would be
25 rounded to the nearest 10 would be
16 rounded to the nearest 10 would be
94 rounded to the nearest 10 would be
12 rounded to the nearest 10 would be
59 rounded to the nearest 10 would be

Lily Pad

## Unit 1

# Number Line

Cut the chart below to represent a number line

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99
100									