## **Understanding the Place Value System**

Check out the "Parent Quick Smarts" video for this unit by using this link: <u>https://goo.gl/5rfFVD</u>

C In this unit, your chil	<b>)verarch</b> ld will w	ning Stud ork to bu	ent Lear uild an un	ning Goa Iderstand	Resources/Tasks to support your child at home.			
Identify the value of the When we identify the va know the location or po place value chart can be	e digits alue of sition c e used t	in who the digit of the dig o deterr	<b>e numb</b> s in who git will d nine the	ers. ble numl etermin value o	Using a deck of cards or rolling a dice, have your child create a 6 digit number. Have them determine and record the value of each digit. "The 4 is worth 400,000 because it's located in the hundred thousands place."			
For example: The digit 6 has a value of 6 thousands or 6,000.	millions	hundred thousands 4	ten thousands 5	thousands	hundreds 3	tens 9	ones 8	<ul> <li>Khan Academy Lesson: Finding Place Value <u>https://goo.gl/XP6u75</u></li> </ul>
Write numbers in stand Students compare and r forms shown below. Th one of the other forms. $\underline{Expanded Form}:$ $400,000 + 50,000 +$ $6,000 + 300 + 90 +$ $8$	lard for represe ley shor	r <b>m, wor</b> d nt numb uld be al <u>Standa</u> 450	d form, a pers, to 1 ple to de <u>rd Form</u> 5,398	and expand L million etermine	<ul> <li>Spin a 6 digit number with a spinner or dice. Have your child represent the number in standard, expanded and word form. Then modify to give them a number in expanded form and have them determine the standard and word form, etc.</li> <li>Khan Academy Lesson: Writing a Number in Expanded Form <a href="https://goo.gl/mqrced">https://goo.gl/mqrced</a></li> </ul>			
Recognize and justify the times greater than the plate of the plate o	nat each digit to ace value ce dire ne value millions 5 hund	h digit in its right re direct ctly to tl e. 50,0 hundred thousands 6	the number of t	ber repr left of c of the cu imes the v thousands 5 5 e value of	<ul> <li>Using a deck of cards, create a 6 digit number or using numbers in the newspaper, etc. have your child compare the place values using the language: "The 6 in the hundreds place is <sup>1</sup>/<sub>10</sub> the value of the 6 in the thousands place. This can also be done by looking for numbers with the same digits to compare the place values</li> <li>Khan Academy: Comparing Place Values <a href="https://goo.gl/D8rtq9">https://goo.gl/D8rtq9</a></li> </ul>			

For more information on the learning goals and your child's progress, please contact your child's teacher.

## Grade 4

Compare tw	vo who	le numb	ers.			•	Using a deck of cards (Ace represents 1), play Place Value						
Compare tw	vo who	le numb	ers, to 1	million,	using pla	War. Having 2 players, each player chooses 6 cards and							
the numbers vertically on top of each other, lining them up by the place										creates a 6 digit number. Using place value, work together to determine which number has a greater value.			
values. Then begin comparing from the greatest place to the least place.													
	hundred ten Recor									ecord the comparison with the symbols <, >, or =. Player			
	millions	thousands	thousands	thousands	hundreds	tens	ones			with the greatest number wins that round. Continue			
		6	5	4	6	3	9	-		playing for multiple rounds.			
		6	5	8	6	2	7						
			5	, U		_	,		•	Khan Academy: Comparing Multi-Digit Whole Number			
Starting from the hundred thousands, the greatest place that has different digits is										https://goo.gl/CP3zpe			
the thousant	us. <del>4</del> m	ousunus	15 1235 111		<i>isunus.</i> 1	nerejore	030,027	is greater.					
Then repres	sent the	e compai	rison wit	h the sv	mbols <.	>. or =.			Khan Academy: Comparing Multi-Digit Whole Numbers				
					,	, -				word Problems <u>Inteps.//goo.gi/septsr</u>			
654 639 < 658 627													
	007,000 \ 000,027												
Round whole numbers to any place.									•	Roll, spin or create a 6 digit number with a deck of card;			
Use place va	alue un	derstand	ding to r	ound an	y numbe	r to 1,00	0,000 a <sup>.</sup>	t any place.	Choose a place to have your child round to and encourage				
A number li	ne is a	great to	ol to use	to roun	d numbe	ers.			them to draw a number line to prove how they rounded				
									1	the original number. It's also helpful to break down the			
Sample Tas	<u>k</u> : Rou	nd 752,6	539 to th	e neare:	st ten th	ousands	place.		9	steps to creating a number line to round, as shown in the			
									example on this document.				
First, detern	nine th	e range j	for the g	iven nur	nber.								
750,000	750,000 760,000								•	Khan Academy: Rounding Whole Numbers to Nearest Ten https://goo.gl/stN46j			
Next, deterr	mine w	hat the r	niddle n	umber is	for the	given rar	nge.						
750,00	0		75	5,000		-	760	,000	•	Khan Academy: Rounding Whole Number to Nearest			
É É				-				1		Hundred <u>https://goo.gl/d6sdj5</u>			
Last, determine the location of the given number and which range number it is													
closest to, th	his is w	hat it wi	ll be rou	nded to.	It is rou	Khan Academy: Rounding Whole Numbers to Nearest Theusand https://coo.gl/Thio/2							
(750,000) 752,639 755,000 760,000								mousand <u>https://goo.gi/mjox3</u>					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,	/ .				, 50	1					
•	•			-				-	1				

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