Year 6 Place Value MATHS KNOWLEDGE ORGANISER



	ESSENTIAL VOCABULARY
0	Ones
т	Tens
н	Hundreds
Th	Thousands
TThs	Tens of thousands
HThs	Hundreds of thousands
М	Millions
Integer	A whole number
approximate	Almost but not completely accurate
partition	Split into parts
Prime number	a whole number above 1 that cannot be made by multiplying other whole numbers
complement	
composite	when it can be divided exactly by a whole number other than itself.
square number	The result of multiplying an integer (not a fraction) by itself
negative number	any number that is less than zero
sequence	is a list of things (usually numbers) that are in order.
linear sequence	Is a list of numbers that increases or decreases by the same amount each time.



Rounding to the nearest 1 000 000

round down

2 000 000 - 2 499 999 2 500 000 3 000 000

round up

previous and next multiple of 1 and 0.1 and rounding to the

nearest of each.

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								Num	pers to Te	n					
MillionsHundred ThousandsTen ThousandsHundredsTensOnes3926471								3 926 471				three million, nine hundred and twenty-six thousar four hundred and seventy-one			
												3 926 471			
3 926 471															
3 926 000 471											3 500 0	00 426 300 171			
0 1	000 000 2	2 000 000 	3 000 000 	4 000 00 X	5 000 ()0		000 70	00 000 8 	000 000 I	9 000 000 	10 000 00	ю			
Powers of 10											Stem Sentences				
Tho G	iattegno	a chart		0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009			
	s that 4			0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	Speaking Frame - Comparing Numb		
			15	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	I am looking at the place value column because		
	undred			1 10	2 20	3 30	4 40	5 50	6 60	7	8 80	9 90	I know that 🗆 is greater than 🗖 because		
•••	r than 4			100	20	300	40	500	600	700	800	900	☐ must be smaller than ☐ because		
One-thousandth of				1000	2000	3000	4000	5000	6000	7000	8000	9000	digit, position, less than, more than, whole numbe		
4,000	IS 4.		1	Line up the	e digits so	that the p	lace value	is accurat	te. Like this			II			
					Math	s Master	y						Representing Numbers		
Think abo	out the num	ber 34 567 8	800.		N	liss Wong, tl	ne teacher, h	nas four car	ds. On each	card is a nu	mber:				
Say this ni	umber aloud	d.				59 996 59 943 60 026 62 312							M HTH TTH TH H T O		
Round this number to the nearest million. What does the digit '8' represent?						She gives one card to each pupil. The pupils look at their card and say a clue. Anna says, 'My number is 60 000 to the nearest 10 thousand.'									
What does the digit '7' represent?					В	ashir says, 'N	Ay number h	nas exactly	600 hundred						
					D	-	-		the nearest the nearest				The counters on this place value chart show the numb		
	s number by	-				-	ou work out which card each pupil had? Explain your choices.						2,130,421. This is written as two million, one hundre and thirty thousand, four hundred and twenty-one		
Jude this	s number by	y root and	say your a	iswer alou	u. C	an you worl	cout which	card each p	oupil had? Ex		and thirty thousand, four hundred and twellty-one				