CURRICULUM OBJECTIVES

NUMBER RECOGNITION			
Arabic Numbers	1	understand and use correctly the word "digit"	
	2	recognize Arabic numbers: 0 – 1,000	
	3	recognize Arabic numbers: 1,000 +……..	
Roman Numerals	4	recognize Roman numerals: I – XXXIX (1 – 39)	
NUMBER/WORD RECOGNITION			
Number Words	1	write the number words for 0 -10	
	2	write the number words for 10 – 1,000	
	3	write the number words for 1,000 – 1,000,000	
Conventions	4	use of comma to separate thousands, (i.e. 1,000, etc.)	
	5	use of hyphen to separate number words (e.g. forty-one)	
	6	use of zero as a place holder	
PLACE VALUE			
Place Value	1	identify place value in numbers 0 – 1,000	
	2	demonstrate an understanding of "place value"	
	3	identify place value in numbers 1,000 – 1,000,000	
	4	place value in whole numbers is found from right to left	
	5	explain expanded notation	
	6.	value of expanded notation for identifying numbers	
COUNTING			
Counting	1	orally from 0 – 1,000, starting any place in between	
	2	drill and practice counting by 1's, 2's, 5's, and 10's (0 – 100)	
	3	orally from 1,000 – 1,000,000, starting any place between	
	4	drill and practice counting by 1's, 2's, 5's, 10's (1,000 – 1,000,000)	
Other	5	recognize "<" and ">" signs	
	6	compare numbers with , and . signs	
	7	explain even and odd numbers	
	8	order numbers from least to greatest and greatest to least	
ADDITION			
Terms	1	use the terms "addend" and "sum"	
	2	explain relationship between adding and counting	
	3	recognize and use "+" sign and the "=" sign	
	4	explain "whole number"	
Addition	5	demonstrate an understanding of addition	
	6	master addition facts up to and including 18	
	7	find sum of four whole numbers up to 3 digits	
	8	find sum of four whole numbers up to 6 digits	

	9	add numbers in columns	
	10	add numbers written in equation form	
	11	regroup ones, tens, hundreds, thousands	
	12	insert zero in blank spaces to make addition easier	
	13	the order in which numbers are added doesn't change the sum	
SUBTRACTION			
Terms	1	use "find the difference between" to signify subtraction	
	2	know the meaning of the subtraction sign "-"	
Subtraction	3	demonstrate an understanding of subtraction	
	4	master subtraction facts up to and including 18	
	5	find the difference in 2 whole numbers up to 3 digits	
	6	find the difference in 2 whole numbers up to 6 digits	
	7	subtract numbers written in columns	
	8	borrow numbers	
	9	regroup ones, tens, hundreds, thousands	
	10	subtract numbers written in equation format	
	11	insert zeros in blank spaces to make subtraction easier	
	12	explain the relation between addition and subtraction	
	13	solve addition/subtraction equations (37 - ? = 14)	
MULTIPLICATION			
Terms	1	understand and use the term "factor"	
	2	understand and use the term "multiple"	
	3	understand and use the term "product"	
	4	recognize and use the multiplication sign "x"	
Multiplication	5	demonstrate an understanding of multiplication	
	6	relation between addition and multiplication	
	7	memorize times table to 12 x 12; use a chart showing relation between numbers	
	8	carry numbers	
	9	Regroup ones, tens, hundreds, and thousands	
	10	multiply by zero	
	11	multiply numbers in columns	
	12	multiply numbers written in equation format	
	13	importance of accuracy	
	14	double checking for computational errors	
	15	neatness in recording columns	
	16	printing legibly	
	17	order in which numbers are multiplied doesn't affect the answer	
DIVISION			
Terms	1	understand and use the term dividend	
	2	understand and use the term divisor	
	3	understand and use the term quotient	
	4	understand and use the term remainder	

	5	understand and use the term prime number	
	6	understand and use the term average (mean)	
	7	use the division signs "÷", "-", and "/"	
	8	divide using horizontal format "⟌"	
Division	9	demonstrate an understanding of division	
	10	carrying numbers	
	11	dividing numbers in horizontal format	
	12	dividing numbers in equation format	
	13	dividing with zero	
	14	expressing remainders using "r"	
	15	explain relation between multiplication and division	
WORD PROBLEMS WITH WHOLE NUMBERS			
Problems	1	demonstrate ability to solve word problems with whole numbers	
Strategies	2	develop good work habits	
	3	read all parts of question carefully	
	4	determine what is asked for or required	
	5	separate information given from question being asked	
	6	record information given and solution required separately	
	7	decide what arithmetic process will solve the problem	
	8	work neatly and arrange work in rows where possible	
	9	label the answer in terms of values given in question	
	10	estimate an answer	
	11	check every step	
	12	compare estimated answer with answer found	
	13	use clue words to solve word problems (e.g. total, sum, how much, how many, increased, altogether, less, fewer, more, difference, left, remains, times, at)	
UNDERSTANDING AND COMPARING FRACTIONS			
Terms	1	explain fraction	
	2	explain numerator and denominator	
Fractions	3	visualize fractions: divide circle or line into correct number of segments to represent a given fraction	
	4	compare fractions: order list of fractions from greatest to least	
	5	compare fractions: order list of fractions from least to greatest	
	6	compare 2 fractions using "<" and ">" (like denominators)	
	7	read "<" and ">" left to right and right to left	
TIME			

Using Time Divisions	1	60 seconds in a minute	
	2	60 minutes in an hour	
	3	24 hours in a day	
	4	7 days in a week	
	5	approximately four weeks in a month	
	6	name the days of the week	
	7	name months of the year	
	8	correctly use a.m. and p.m.	
	9	calculate the number of seconds in a given number of minutes	
	10	calculate the number of minutes in a given number of hours	
	11	calculate the number of hours in a given number of days	
	12	state the number of days in a given month	
	13	explain the term "leap year"	
	14	calculate the leap years between two given dates	
	15	express time in words	
	16	use timetables (e.g. bus, train, school)	
Clocks	17	tell time with an analog clock to the nearest minute	
	18	recognize times (e.g. quarter past four, ten to six)	
	19	tell time with a digital clock (e.g. 1:50 is ten to one)	
	20	briefly describe the "twenty-four hour" clock	
	21	discuss where the twenty-four hour clock might be found	
	22	recognize written time (e.g. half hour, quarter hour)	
	23	use of the colon in writing time (e.g. 2:53)	
Calendars	24	numeric dating: various styles (d/m/y; y/m/d; m/d/y)	
MONEY			
Coin Values	1	identify value of coins: penny (cent), nickel, dime, quarter, loonie, and toonie	
	2	use of the "$" and "¢" signs	
	3	use of decimal point to write dollar/cent amounts	
	4	convert cents to dollars and dollars to cents	
Calculating with Money	5	use knowledge of decimals to add and subtract money	
	6	use knowledge of decimals to multiply and divide money	
	7	practice counting money and making change	
	8	find cost of several items, given the unit cost	
	9	find unit cost, given number of items and total cost	
METRIC MEASUREMENT			
Terms	1	linear, volume, mass measurement	
	2	gram (mass), litre (volume), metre (linear)	
	3	prefixes: milli, centi, deci, (metre, gram, litre), deka, hecto, kilo	
	4	abbreviations linear measure: mm, dm, m, dam, km, cm, hm	
	5	abbreviations volume measure: ml, dl, L, dal, hl, kl, cl	

	6	abbreviations mass measure: mg, cg, g, dag, hg, kg,dg	
	7	faces, edges, vertex, vertices	
	8	square, rectangle, triangle	
	9	perimeter	
	10	area	
Using Metric Measurement	11	estimate and measure accurately: linear measurement	
	12	estimate and measure accurately: volume measurement	
	13	estimate and measure accurately: mass measurement	
	14	identify geometric figures by counting faces, edges, and vertices	
	15	formula: calculate perimeter of rectangle (2l + 2w)	
WORD PROBLEMS WITH MEASUREMENT			
Problems	1	demonstrate ability to solve word problems with addition, subtraction, multiplication, and division of whole numbers, time, money, temperature, and metric measurement	
Strategies	2	develop good work habits	
	3	read all parts of question carefully	
	4	determine what is asked for or required	
	5	separate information given from question being asked	
	6	record information given and solution required separately	
	7	decide what arithmetic process will solve the problem	
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