Kentucky Numeracy Project Instructional Resources Numeracy Progressions

Numeracy Targets and Colors for each Strand and Level

Forward counting* Nf	Nf0 Rote counting 1 to 5	Nf1 Rote counting 1 to 10	-				
Backward counting* Nb	Nb0 Rote counting backward 5 to 1	Nb1 Rote counting backward 10 to 1	Nb2 Emerging backward counting from any number within 10	counting from any	Nb4 Facile backward counting from any number within 30		,
Numeral Identification* Ni	Ni0 Identify numerals to 1 to 5	Ni1 Identify numerals 0 to 10	Identify numerals	Ni3 Identify numerals 0 to 100	Ni4 Identify numerals 0 to 1,000	Ni5 Identify numerals 0 to 1,000,000	
Addition & Subtraction* A	A0 Count visible items to 20	using items	Add by counting from 1 (no visible	A3 Add by counting on; subtract by counting back	A4 Relate addition and subtraction	Add and subtract using a range of	A6 Extending and refining strategies for +/-
Structuring*	S0 Subitize quantities to 6	S1 Facile structures to 5		S3 Facile structures to 10	S4 Intermediate structures to 20	S5 Facile structures to 20	

^{*}Indicated strands align to Add+Vantage MR® (AVMR) Contructs and Levels.



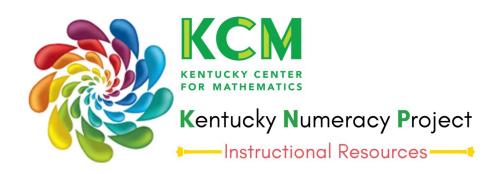
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Numeracy Targets and Colors for each Strand and Level

			acy range to and ex				
Base Ten	T0	T1	T2	T3	T4	T5	T6
Arithmetical	Emerging	Solve 2-digit +/-	Solve 2-digit +/-	Beginning to solve	Solve 2-digit +/-	Solve 3-digit +/-	Extending and
Strategies*	<u>understanding</u>	with materials by	with materials	2-digit +/- without	without materials	without materials	refining efficient
Т	that 2-digit	counting by 10s	using strategies	materials using	using a range of	using a variety of	strategies for multi-
	numbers are	OR by 1s	based on place	strategies based	strategies	strategies	digit +/-
	composed of tens		value	on place value			
	and ones						
Multiplication	M0	M1	M2	M3	M4	M5	M6
and Division*	No activities at	Build and share	Count equal	Count items	Multiply and	Multiply and	Extend and refine
M	the level	items into equal	groups using stress	arranged in equal	divide within 100	divide within 100	efficient strategies
		groups	or skip counting	groups with only	using counting	using a range of	for multiplication
				group markers	strategies	strategies	& division
				visible (items			
				within groups are			
				not visible)			
		ı			ı	•	
Fractions	F0	F1	F2	F3	F4	F5	F6
F	Whole number	Emerging	Facile partitioning	Beginning to	Understand a	Comparing	Extend and refine
	foundations;	partitioning (e.g.	(e.g. verifying a	understand a	fraction as a	fractions	fraction
	introduce	partitioning to	shape has been	fraction as a	measure		understandings
	manipulative	create halves,	partitioned into	measure, i.e.			
		thirds, etc.)	fourths or eighths)	1 4			
				size of 3 one-			
				fourth pieces.			
I.							

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Using Numeracy Progressions

KNP activities are organized into Task Groups, a set of 4-7 related activities aligned to a numeracy progression. All activities within a task group share the same 4 digit number task group ID number. The prefix indicates the instructional strand, and the suffix, indicates the level of the activity. Within a strand, all activities with the same level will also be the same color and comparable in complexity. The example below shows the progression of one task group in the Structuring Strand.

	T.	T T T T T T T T T T T T T T T T T T T	
Activity ID #	Color	Activity Name	Mathematical Task
S 2211.0	Yellow	Pyramid (Match to 5)	Students match cards representing the same amount within 5. Cards available include dot patterns, 5 frames, finger patterns, numeral, and word cards.
S 2211.1	Red	Pyramid (Make 5)	Students match two cards with a sum of 5. Cards available include dot patterns, 5 frames, finger patterns, numeral, and word cards.
S 2211.2	Blue	Pyramid (Make 10, 10 frames)	Students match two cards with a sum of 10. Cards available include both a numeral and ten frame representation.
S 2211.3	Green	Pyramid (Make 10, numeral cards)	Students match two numeral cards with a sum of 10.
S 2211.4	Purple	Pyramid (Make 20, double 10 frames)	Students match two cards with a sum of 20. Cards available include both a numeral and double ten frame representation.
S 2211.5	Pink	Pyramid (Make 20, numeral cards)	Students match two numeral cards with a sum of 20.

As the level number increases, activities increase in complexity.

In this example, note the increasing number range and choice of materials.