

Summary of Grade Level Work

Key Areas of Focus		Required Fluencies by Grade Level		Mental Strategies
K-2	Addition and subtraction-concepts, skills, and problem solving; place value	K.OA.5	Add and subtract within 5	<p style="text-align: center;"><u>Operations & Algebraic Thinking</u></p> <ul style="list-style-type: none"> -Counting on -Making ten e.g., $8+6=8+2+4=10+4=14$ -Decomposing a number leading to a ten e.g., $13-4=13-3-1=10-1=9$ -Using the relationship between addition and subtraction e.g., knowing that $8+4=12$, one knows $12-8=4$
		1.OA.6	Add and subtract within 10	
		2.OA.2	Add and subtract within 20 <u>using strategies</u> By end of grade 2, know from memory all sums of two one-digit numbers	
		2.NBT.5	Add and subtract within 100 <u>using strategies</u>	
3-5	Multiplication and division of whole numbers and fractions-concepts, skills and problem solving	3.OA.7	Multiply and divide within 100 <u>using strategies</u> By the end of grade 3, know from memory all products of two one-digit numbers	<ul style="list-style-type: none"> -Using the relationship between multiplication and division e.g., knowing that $8 \times 5 = 40$, one knows $40 / 5 = 8$ -Creating equivalent but easier or known sums E.g., adding $6+7$ by creating the known equivalent $6+6+1=12+1=13$ <p style="text-align: center;"><u>Number & Operations in Base Ten</u></p> <ul style="list-style-type: none"> -Place value -Properties of operations -Relationship between addition and subtraction -Relationship between multiplication and division
		3.NBT.2	Add and subtract within 1000 <u>using strategies and algorithms</u>	
		4.NBT.4	Add and subtract within 1,000,000 <u>using the standard algorithm</u>	
		5.NBT.5	Multi-digit multiplication <u>using the standard algorithm</u>	