

K to 12 BASIC EDUCATION CURRICULUM

GRADE 5

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
Grade 5- FIRST QUARTER						
Numbers and Number Sense	1. demonstrates understanding of whole numbers up to 10 000 000. 2. demonstrates understanding of divisibility, order of operations, factors and multiples, and the four fundamental operations involving fractions	1. is able to recognize and represent whole numbers up to 10 000 000 in various forms and contexts. 2. is able to apply divisibility, order of operations, factors and multiples, and the four fundamental operations involving fractions in mathematical problems and real-life situations.	1. visualizes numbers up to 10 000 000 with emphasis on numbers 100 001 – 10 000 000.	M5NS-Ia-1.5	1. DLP Gr. 3 Module 1, Gr. 4 Module 1 2. BEAM LG Gr. 4 Module 1- Whole Numbers 3. Lesson Guide in Elem. Math Gr. 4 p. 1 4. MISOSA Gr. 4 Module – Numbers through Billions 5. Lesson Guide in Elem. Mathematics Grade 4. 2005. pp. 1-4 6. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 1-3 7. Lesson Guide in Elem. Mathematics Grade 4. 2010. pp. 1-4 8. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 1-4 9. Mathematics for Everyday Life Grade 4. 2000. p. 2* 10. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 1-4	
			2. reads and writes numbers up to 10 000 000 in symbols and in words.			

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					3. Lesson Guide in Elem. Math Gr. 4 p. 7, Gr. 5 p. 1 4. Lesson Guide in Elem. Mathematics Grade 4. 2005. pp. 7-9 5. Lesson Guide in Elem. Mathematics Grade 4. 2010. pp. 7-9 6. Mathematics for Everyday Life Grade 4. 2000. pp. 3-5* 7. Mathematics for Everyone Grade 5. 2000. p. 8* 8. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 7-9	
			3. rounds numbers to the nearest hundred thousand and million.	M5NS-Ia-15.3	1. DLP Gr. 3 Module 6, Gr. 5 Module 4 2. BEAM LG Gr. 4 Module – Rounding Off Numbers 3. Lesson Guide in Elem. Math Gr. 4 p. 13 4. MISOSA Gr. 4 Module – Rounding Numbers 5. Lesson Guide in Elem. Mathematics Grade 4. 2005. pp. 13-15; 15-18 6. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 9-12 7. Lesson Guide in Elem. Mathematics Grade 4. 2010. pp. 13-18	

K to 12 BASIC EDUCATION CURRICULUM

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	The learner...	The learner...	The learner...			
					8. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 9-13 9. Mathematics for Everyday Life Grade 4. 2000. 10-13* 10. Grade School Mathematics Grade 4. 2003. p. 16* 11. Lesson Guide in Elementary Mathematics Grade 4. 2012. pp. 13-18	
			4. uses divisibility rules for 2, 5, and 10 to find the common factors of numbers.	M5NS-Ib-58.1	1. DLP Gr. 4 Module 4, Gr. 5 Module 1, 12 2. Lesson Guide in Elem. Math Gr. 5 p.48 3. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 44-47 4. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 48-51 5. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 48-51	
			5. uses divisibility rules for 3, 6, and 9 to find common factors.	M5NS-Ib-58.2	1. DLP Gr. 5 Module 1, 12 2. Lesson Guide in Elem. Math Gr. 5 p.51, 57 3. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 47-50 4. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 51-54 5. Lesson Guide in Elem.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			6. uses divisibility rules for 4, 8, 12, and 11 to find common factors.	M5NS-Ib-58.3	Mathematics Grade 5. 2012. pp. 51-54 DLP Gr. 5 Module 1, 12	
			7. solves routine and non-routine problems involving factors, multiples, and divisibility rules for 2,3,4,5,6,8,9,10,11, and 12.	M5NS-Ic-59	1. Lesson Guide in Elem. Math Gr. 5 p.57 2. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 54-59	
			8. creates problems(with reasonable answers) involving factors, multiples and divisibility rules.	M5NS-Ic-60		
			9. states, explains, and interprets Parenthesis, Multiplication, Division, Addition, Subtraction (PMDAS) or Grouping, Multiplication, Division, Addition, Subtraction (GMDAS) rule.	M5NS-Ic-61.2		
			10. simplifies a series of operations on whole numbers involving more than two operations using the PMDAS or GMDAS rule.	M5NS-Id-62.2		
			11. finds the common factors and the GCF of 2–4 numbers using continuous division.	M5NS-Id-68.2	1. DLP Gr. 5 Module 9 2. BEAM LG Gr. 6 – Number Theory 3. Lesson Guide in Elem. Math Gr. 5 p.33, Gr. 6 p. 148 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 27-31 5. Lesson Guide in Elem.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Mathematics Grade 6. 2005. pp. 134-137 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 33-37 7. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 148-151 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 33-37	
			12. finds the common multiples and LCM of 2–4 numbers using continuous division.	M5NS-Id-69.2	1. DLP Gr. 5 Module 11 2. BEAM LG Gr. 6 – Number Theory 3. Lesson Guide in Elem. Math Gr. 5 p.44, Gr. 6 p. 151 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 41-44 5. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 143-147 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 44-48 7. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 151-155 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 44-48	
			13. solves real-life problems involving GCF and LCM of 2-3 given numbers.	M5NS-Ie-70.2		

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			14. creates problems(with reasonable answers)involving GCF and LCM of 2-3 given numbers.	M5NS-Ie-71.2		
			15. adds fractions and mixed fractions without and with regrouping.	M5NS-Ie-84	<ol style="list-style-type: none"> 1. DLP Gr. 5 Module 16, 22 2. Lesson Guide in Elem. Math Gr. 5 p. 99 – 107 3. MISOSA Gr. 5 Modules on Addition of Fractions and Mixed Forms 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 71-76; 81-100 5. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 104-107 6. Mathematics for Everyone Grade 5. 2000. pp. 94-95* 7. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 217-227 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 79-111 9. Proded Math. III-A: Adding and Subtracting Similar Fractions 10. Proded Math. IIIB & III-C: Add and Subtract Fractions and Wholes 11. Proded Math. 34-A, 34-B & 34-C: Adding Dissimilar Fractions 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					12. NFE Accreditation and Equivalency Learning Material. Addition and Subtraction of Fractions. 2001. pp. 6-23 13. NFE Accreditation and Equivalency Learning Material. Pagdaragdag at Pagbabawas ng mga Praksiyon. 2001. pp. 5-15	
			16. subtracts fractions and mixed fractions without and with regrouping.	M5NS-If-85	1. BEAM LG Gr. 5 Module 4 – Subtraction of Dissimilar Fractions 2. Lesson Guide in Elem. Math Gr. 5 p. 140-166 3. MISOSA Gr. 5 Modules on Subtraction of Fractions and Mixed Forms 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 115-151 5. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 159-165 6. Mathematics for Everyday Use Grade 6. 1999. pp. 103-105* 7. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 230-238 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 124-171	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					9. Proded Math. III-A: Adding and Subtracting Similar Fractions 10. Proded Math. IIIB & III-C: Add and Subtract Fractions and Wholes 11. Proded Math. 34-A, 34-B & 34-C: Adding Dissimilar Fractions 12. NFE Accreditation and Equivalency Learning Material. Addition and Subtraction of Fractions. 2001. pp. 26-31 13. NFE Accreditation and Equivalency Learning Material. Pagdaragdag at Pagbabawas ng mga Praksiyon. 2001. pp. 25-26	
			17. solves routine and non-routine problems involving addition and/or subtraction of fractions using appropriate problem solving strategies and tools.	M5NS-If-87.2	1. BEAM LG Gr. 5 Module 7 – Application of Subtraction of Fraction 2. Lesson Guide in Elem. Math Gr. 5 p. 119, 172,176 3. MISOSA Gr. 5 Modules on Addition and Subtraction of Word problems involving Fractions 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 106-111; 151-159	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					5. Lesson Guide in Elem. Mathematics Gr. 5. 2010. pp. 119-124; 172-181 6. Mathematics for Everyone Grade 5. 2000. pp. 96-97, 106-107* 7. Mathematics for Everyday Use Grade 6. 1999. p. 105* 8. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 242-249 9. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 119-124, 172-181 10. NFE Accreditation and Equivalency Learning Material. Addition and Subtraction of Fractions. 2001. pp. 24-25, 31-40 11. NFE Accreditation and Equivalency Learning Material. Addition and Subtraction of Fractions. 1998. pp. 4-17, 18-25, 26-34 12. NFE Accreditation and Equivalency Learning Material. Pagdaragdag at Pagbabawas ng mga Praksiyon. 2001. pp. 27-30, 37-41	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			18. creates problems (with reasonable answers) involving addition and/or subtraction of fractions using appropriate problem solving strategies.	M5NS-If-88.2		
			19. visualizes multiplication of fractions using models.	M5NS-Ig-89	<ol style="list-style-type: none"> 1. DLP Gr. 4 Module 69 2. BEAM LG Gr. 4 Module 10 – Multiplication of Fractions 3. Lesson Guide in Elem. Math Gr. 4 p. 250, Gr. 5 p.180 4. MISOSA Gr. 5 Module – Visualization of Multiplication of Fractions 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 159-164 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 181-187 7. Mathematics for Everyday Life Grade 4. 2000. p. 132* 8. Mathematics for Everyone Grade 5. 2000. pp. 112-113* 9. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 250-254 10. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 181-187 	
			20. multiplies a fraction and a whole number and another	M5NS-Ig-90.1	<ol style="list-style-type: none"> 1. DLP Gr. 4 Module 70, Gr. 5 Module 25 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			fraction.		2. BEAM LG Gr. 4 Module 10 – Multiplication of Fractions 3. Lesson Guide in Elem. Math Gr. 4 p. 254, 261, Gr. 5 p.187, 196, 200 4. MISOSA Gr. 5 Modules –Multiplication of Fractions 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 171-174; 174-177 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 196-200; 203-209 7. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 261-263 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 187-191, 196-213 9. BALS Video – Lesson 1: Multiplication and Division of Proper and Improper Fractions	
			21. multiplies mentally proper fractions with denominators up to 10.	M5NS-Ig-91	1. Mathematics for Everyone Grade 5. 2000. p. 115*	
			22. solves routine or non-routine problems involving multiplication without or with addition or subtraction of fractions and whole numbers	M5NS-Ih-92.1	1. DLP Gr. 4 Module 71 2. BEAM LG Gr. 4 Module 10 – Multiplication of Fractions 3. Lesson Guide in Elem.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			using appropriate problem solving strategies and tools.		Math Gr. 4 p.264, 269 4. MISOSA Gr. 5 Modules –Word problems on Multiplication of Fractions 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 186-190 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 213-217 7. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 264-272 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 213-217	
			23. creates problems (with reasonable answers) involving multiplication of fractions.	M5NS-Ih-93.1		
			24. shows that multiplying a fraction by its reciprocal is equal to 1.	M5NS-Ih-94	1. Mathematics for Everyday Use Grade 6. 1999. p. 129* 2. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 253-258	
			25. visualizes division of fractions.	M5NS-Ii-95	1. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 249-253 2. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 266-270	
			26. divides <ul style="list-style-type: none"> - simple fractions - whole numbers by a fraction and vice versa 	M5NS-Ii-96.1	1. DLP Gr. 6 Module 38 2. MISOSA Modules Gr.6 – Division of Fractions 3. Lesson Guide in Elem.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Mathematics Grade 6. 2005. pp. 254-257; 257-260 4. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 270-277 5. Mathematics for Everyday Use Grade 6. 1999. pp. 137-139* 6. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 270-282 7. BALS Video – Lesson 1: Multiplication and Division of Proper and Improper Fractions	
			27. solves routine or non-routine problems involving division without or with any of the other operations of fractions and whole numbers using appropriate problem solving strategies and tools .	M5NS-Ij-97.1	1. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 266-269; 269-273 2. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 282-289 3. Mathematics for Everyday Use Grade 6. 1999. pp. 139-144* 4. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 282-289	
			28. creates problems (with reasonable answers) involving division or with any of the other operations of fractions and whole numbers.	M5NS-Ij-98.1		

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
Grade 5- SECOND QUARTER						
Numbers and Number Sense	<ol style="list-style-type: none"> demonstrates understanding of decimals. demonstrates understanding of the four fundamental operations involving decimals and ratio and proportion. 	<ol style="list-style-type: none"> is able to recognize and represent decimals in various forms and contexts. is able to apply the four fundamental operations involving decimals and ratio and proportion in mathematical problems and real-life situations. 	<ol style="list-style-type: none"> gives the place value and the value of a digit of a given decimal number through ten thousandths. 	M5NS-IIa-101.2	<ol style="list-style-type: none"> DLP Gr. 6 Module 5 Lesson Guide in Elem. Math Gr. 5 p.237, Gr. 6 p. 38 MISOSA Module Gr.6 – Place Value of Decimals Lesson Guide in Elem. Mathematics Grade 4. 2005. pp. 151-154 Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 211-213 Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 35-39 Lesson Guide in Elem. Mathematics Grade 4. 2010. pp. 153-156 Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 237-241 Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 38-43 Grade School Mathematics Grade 4. 2003. p. 166* Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 153-156 Lesson Guide in Elem. Mathematics Grade 5. 2012. pp.237-241 Lesson Guide in Elem. Mathematics Grade 6. 	Place Value Chart with Decimal Pockets

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					2012. pp. 38-43 14. NFE Accreditation and Equivalency Learning Material. Addition and Subtraction of Fractions. 2001. pp. 26-31 15. NFE Accreditation and Equivalency Learning Material. Pagdaragdag at Pagbabawas ng mga Desimal. 2001. pp. 4-10	
			30. reads and writes decimal numbers through ten thousandths.	M5NS-IIa-102.2	1. DLP Gr. 4 Module 47, Grade 5 Module 30, Gr. 6 Module 6 2. BEAM LG Gr. 5 Decimals, Gr. 6 Module 2 3. Lesson Guide in Elem. Math Gr. 5 p.241, Gr. 6 p.43 4. MISOSA Module Gr.6 – Read and Write Decimals 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 213-217 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 241-247 7. Grade School Mathematics Grade 4. 2003. pp. 152-153, 166, 168 8. Mathematics for	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Everyday Use Grade 6. 1999. pp. 154-155* 9. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 146-148 10. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 241-247 11. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 43-46	
			31. rounds decimal numbers to the nearest hundredth and thousandth.	M5NS-IIa-103.2	1. DLP Gr. 4 Module 49, Grade 5 Module 31, Gr. 6 Module 8 2. BEAM LG Gr. 5 Decimals, Gr. 6 Module 2 3. Lesson Guide in Elem. Math Gr. 5 p.247, Gr. 6 p.49 4. MISOSA Gr. 5 and 6 Modules –Rounding Decimals 5. Lesson Guide in Elem. Mathematics Grade 4. 2005. pp. 157-160 6. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 217-219 7. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 46-48 8. Lesson Guide in Elem. Mathematics Grade 4. 2010. pp. 159-162 9. Lesson Guide in Elem.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Mathematics Grade 5. 2010. pp. 247-251 10. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 49-51 11. Mathematics for Everyone Grade 5. 2000. p. 135* 12. Mathematics for Everyday Use Grade 6. 1999. pp. 156-158* 13. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 159-162 14. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 247-251	
			32. compares and arranges decimal numbers.	M5NS-IIb-104.2	1. DLP Gr. 6 Module 7 2. BEAM LG Gr. 6 Module 2 3. Lesson Guide in Elem. Math Gr. 6 p. 46 4. MISOSA Module Gr.6 – Compare and Order Decimals 5. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 42-45 6. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 46-49 7. Grade School Mathematics Grade 4. 2000. pp. 153-154* 8. Lesson Guide in Elem. Mathematics Grade 6.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					2012. pp. 46-49	
			33. visualizes addition and subtraction of decimals.	M5NS-IIb-105	Mathematics for Everyday Life Grade 4. 2000. pp. 150, 152*	
			34. adds and subtracts decimal numbers through thousandths without and with regrouping.	M5NS-IIb-106.1	<ol style="list-style-type: none"> 1. DLP Gr. 4 Module 50, 51, 52, 53, Grade 5 Module 32, 34 2. BEAM LG Gr. 4 Module 7 – Addition and Subtraction of Decimals, Gr. 5 Module 7 3. Lesson Guide in Elem. Math Gr. 5 p.117, 251, 254, 257, 264 4. MISOSA Gr. 4 and Gr. 5 Modules – Addition and Subtraction of Decimals 5. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 251-267 6. Mathematics for Everyone Grade 5. 2000. pp. 136-139* 7. Mathematics for Everyday Use Grade 6. 1999. pp. 159-162* 8. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 162-169 9. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 251-267 10. Proded Math. III-C: Add and Subtract Decimals 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					11. Proded Math. III-B: Add and Subtract Mixed Decimals 12. NFE Accreditation and Equivalency Learning Material. Pagdaragdag at Pagbabawas ng mga Desimal. 2001. pp. 19-21, 27-32	
			35. estimates the sum or difference of decimal numbers with reasonable results.	M5NS-IIc-107	1. DLP Gr. 6 Module 9 2. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 51-54	
			36. solves routine or non-routine problems involving addition and subtraction of decimal numbers including money using appropriate problem solving strategies and tools.	M5NS-IIc-108.1	1. DLP Gr. 4 Module 54, 55, 56, Grade 5 Module 35 2. BEAM LG Gr. 4 Module 7 – Addition and Subtraction of Decimals, Gr. 5 Module 7 3. Lesson Guide in Elem. Math Gr. 5 p.271 4. MISOSA Gr. 4 Modules – Word Problems on Addition and Subtraction of Decimals 5. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 268-273 6. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 68-70 7. Mathematics for Everyday Life Grade 4. 2000. pp. 156-157,	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					159* 8. Grade School Mathematics Grade 4. 2003. pp. 162-163* 9. Mathematics for Everyone Grade 5. 2000. p. 145* 10. Mathematics for Everyday Use Grade 6. 1999. pp. 169-171* 11. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 175-188 12. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 268-273 13. NFE Accreditation and Equivalency Learning Material. Pagdaragdag at Pagbabawas ng mga Desimal. 2001. pp. 22-26	
			37. creates problems (with reasonable answers) involving addition and/or subtraction of decimal numbers including money.	M5NS-IIc-109.1		
			38. visualizes multiplication of decimal numbers using pictorial models.	M5NS-IIId-110	1. Lesson Guide in Elem. Math Gr. 5 p.274 2. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 235-238 3. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 274-278 4. Lesson Guide in Elem.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Mathematics Grade 5. 2012. pp. 274-275	
			39. multiplies decimals up to 2 decimal places by 1- to 2-digit whole numbers.	M5NS-IIId-111.1	<ol style="list-style-type: none"> 1. MISOSA Gr. 5 Module – Multiplication of Decimals and Whole Numbers 2. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 80-83 3. Proded Math. 36A: Multiplying Decimals 4. Mathematics for Everyday Use Grade 6. 1999. pp. 174-175* 	
			40. multiplies decimals with factors up to 2 decimal places.	M5NS-IIId-111.2	<ol style="list-style-type: none"> 1. Lesson Guide in Elem. Math Gr. 5 p.279, 282 2. MISOSA Gr. 5 Module – Multiplication of Decimals through Hundredths 3. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 279-297 4. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 73-89 5. Proded Math. 36-A: Multiplying Decimals 6. Proded Math. 36-B: Multiplying More Decimals 7. Proded Math. 36-C: Multiplying Mixed Decimals 8. NFE Accreditation and Equivalency Learning 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Material. Multiplication and Division of Decimals. 2001. pp. 4-16	
			41. estimates the products of decimal numbers with reasonable results.	M5NS-IIe-112	<ol style="list-style-type: none"> 1. DLP Gr. 6 Module 13 2. MISOSA Module Gr.6 – Estimating Quotients of Decimals 3. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 66-68 4. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 70-73 	
			42. solves routine and non-routine problems involving multiplication without or with addition or subtraction of decimals and whole numbers including money using appropriate problem solving strategies and tools.	M5NS-IIe-113.1	<ol style="list-style-type: none"> 1. MISOSA Gr. 5 Module – Word Problems on Multiplication of Decimals 2. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 255-257 3. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 88-91; 91-94 4. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 301-305 5. Lesson Guide in Elem. Mathematics Gr. 6. 2010. pp. 93-100 6. Lesson Guide in Elementary Mathematics Gr. 6. 2012. pp. 93-100 7. Mathematics for Everyone Gr. 5. 2000. 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					pp. 159-161* 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 213-217 9. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 93-100 10. NFE Accreditation and Equivalency Learning Material. Multiplication and Division of Decimals. 2001. pp. 17-21	
			43. visualizes division of decimal numbers using pictorial models.	M5NS-IIIf-115	1. Lesson Guide in Elem. Math Gr. 5 p.305 2. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 258-261 3. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 305-310 4. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 305-310	Base 10 Blocks
			44. divides decimals with up to 2 decimal places.	M5NS-IIIf-116.1	1. DLP Grade 5 Module 42 2. BEAM LG Gr. 5 Module 13 3. Lesson Guide in Elem. Math Gr. 5 p.314 4. MISOSA Gr. 5 Module – Division of Decimals 5. Lesson Guide in Elementary Mathematics Grade 5. 2012. pp. 310-318 6. Mathematics for	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Everyone Grade 5. 2000. pp. 162-163* 7. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 310-318 8. NFE Accreditation and Equivalency Learning Material. Multiplication and Division of Decimals. 2001. pp. 22-32	
			45. divides whole numbers with quotients in decimal form.	M5NS-IIIf-116.2	1. Lesson Guide in Elem. Math Gr. 6 p.109 2. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 261-264 3. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 103-105 4. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 314-318 5. Mathematics for Everyone Grade 5. 2000. pp. 164-165* 6. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 109-111	
			46. estimates the quotients of decimal numbers with reasonable results.	M5NS-IIIg-117	1. DLP Gr. 6 Module 18 2. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 94-97 3. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 100-102*	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			47. solves routine and non-routine problems involving division without or with any of the other operations of decimals and whole numbers including money using appropriate problem solving strategies and tools.	M5NS-IIg-120.1	<ol style="list-style-type: none"> 1. DLP Grade 5 Module 43 2. BEAM LG Gr. 5 Module 13 3. MISOSA Gr. 5 Module – Word Problems on Division of Decimals 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 268-270 5. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 123-129 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 318-321 7. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 130-136 8. Mathematics for Everyone Grade 5. 2000. pp. 166-167* 9. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 318-321 10. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 130-136 11. NFE Accreditation and Equivalency Learning Material. Multiplication and Division of Decimals. 2001. pp. 32-41 	
			48. creates problems (with reasonable answers) involving multiplication and/or division	M5NS-IIg-121.1		

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			or with any of the other operations of decimals and whole numbers including money.			
			49. visualizes the ratio of 2 given numbers.	M5NS-IIh-122	<ol style="list-style-type: none"> 1. MISOSA Gr. 5 Module – Visualization of Ratio 2. Mathematics for Everyday Life Grade 4. 2000. p. 134* 3. Grade School Mathematics Grade 4. 2003. p. 140* 	
			50. expresses ratio using either the colon (:) or fraction.	M5NS-IIh-123	<ol style="list-style-type: none"> 1. DLP Gr. 6 Module 42 2. BEAM LG Gr. 5 Module 9, Gr. 6 Module 11 3. Lesson Guide in Elem. Math Gr. 5 p.218 4. MISOSA Gr. 5 Module – Expressing Ratio 5. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 273-276 6. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 289-293 7. Mathematics for Everyday Life Grade 4. 2000. p. 136* 8. Grade School Mathematics Grade 4. 2003. p. 141* 9. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 218-222 10. Lesson Guide in Elem. Mathematics Grade 6. 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					2012. pp. 289-293	
			51. identifies and writes equivalent ratios.	M5NS-IIi-124	<ol style="list-style-type: none"> 1. DLP Grade 5 Module 29 2. BEAM LG Gr. 5 Module 9 3. Lesson Guide in Elem. Math Gr. 5 p.227 4. MISOSA Gr. 5 Module – Proportion 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 196-200 6. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 227-231 7. BALS Video – Ratio and Proportion 	
			52. expresses ratios in their simplest forms.	M5NS-IIi-125	<ol style="list-style-type: none"> 1. Lesson Guide in Elem. Math Gr. 5 p.222 2. MISOSA Gr. 5 Module – Ratio in its Simplest Form 3. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 194-196 4. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 276-280 5. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 293-297 6. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 222-226 7. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 293-297 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					8. BALS Video – Ratio and Proportion	
			53. finds the missing term in a pair of equivalent ratios.	M5NS-III-126	1. DLP Gr. 6 Module 43 2. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 280-283 3. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 297-301 4. Mathematics for Everyday Life Grade 4. 2000. p. 137* 5. Mathematics for Everyday Use Grade 6. 1999. pp. 146-147*	
			54. defines and describes a proportion.	M5NS-IIj-127	Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 289-293	
			55. recognizes when two quantities are in direct proportion.	M5NS-IIj-128		
Grade 5- THIRD QUARTER						
	demonstrates understanding of percent.	is able to apply percent in mathematical problems and real-life situations	56. visualizes percent and its relationship to fractions, ratios, and decimal numbers using models.	M5NS-IIIa-136	1. DLP Gr. 5 Module 44 2. BEAM LG Gr. 5 Module 14 3. Lesson Guide in Elem. Math Gr. 5 p.321, 325, 330, 334 4. MISOSA Gr. 5 Modules–Percent, Fraction, Ratio and Decimal 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 280-283 6. Mathematics for	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Everyone Grade 5. 2000. p. 172* 7. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 321-339 8. BALS Video – Solving Percentage Problems	
			57. defines percentage, rate or percent, and base.	M5NS-IIIa-137	1. DLP Gr. 6 Module 45 2. BEAM LG Gr. 6 Module 17 3. Lesson Guide in Elem. Math Gr. 6 p.311 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 283-288 5. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 292-297 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 339-345 7. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 311-316 8. Mathematics for Everyone Grade 5. 2000. p. 178* 9. Mathematics for Everyday Use Grade 6. 1999. p. 198* 10. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 311-316	
			58. identifies the base, percentage, and rate in a problem.	M5NS-IIIa-138	1. DLP Gr. 6 Module 45 2. Lesson Guide in Elem. Math Gr. 5 p.339	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					3. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 339-345	
			59. finds the percentage in a given problem.	M5NS-IIIb-139	1. DLP Gr. 6 Module 46 2. BEAM LG Gr. 6 Module 17 3. Lesson Guide in Elem. Math Gr. 5 p.345 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 288-291 5. Mathematics for Everyone Grade 5. 2000. p. 179* 6. Mathematics for Everyday Use Grade 6. 1999. p. 199* 7. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 345-350 8. Proded Math. 37-A: Finding Percentage	
			60. solves routine and non-routine problems involving percentage using appropriate strategies and tools.	M5NS-IIIb-140	1. BEAM LG Gr. 6 Module 17 2. Mathematics for Everyone Grade 5. 2000. pp. 180-182	
			61. creates problems involving percentage, with reasonable answers.	M5NS-IIIb-141		
Geometry	demonstrates understanding of polygons, circles, and	is able to construct and describe polygons, circles, and solid	62. visualizes, names, and describes polygons with 5 or more sides.	M5GE-IIIc-19	1. DLP Gr. 4 Module 72 2. Lesson Guide in Elem. Math Gr. 5 p.350, 354 3. Lesson Guide in Elem.	Geoboard, 11 x 11

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
	solid figures.	figures.			Mathematics Grade 5. 2005. pp. 292-294; 295-297 4. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 350-357 5. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 354-357 6. NFE Accreditation and Equivalency Learning Material. Geometric Shapes. 2001. pp. 14-15	
			63. describes and compares properties of polygons (regular and irregular polygons).	M5GE-IIIc-20		Template, Shapes
			64. draws polygons with 5 or more sides.	M5GE-IIIc-21	1. DLP Gr. 5 Module 46 2. BEAM LG Gr. 5 Geometry	
			65. visualizes congruent polygons.	M5GE-IIIId-22	1. Lesson Guide in Elem. Mathematics Gr. 5. 2005. pp. 297-300 2. Lesson Guide in Elem. Mathematics Gr. 5. 2010. pp. 358-362 3. Lesson Guide in Elem. Mathematics Gr. 5. 2012. pp. 358-362	Geostrips
			66. visualizes and describes a circle.	M5GE-IIIId-23.1	1. Grade School Mathematics Grade 4. 2003. p. 192*	Compass, blackboard
			67. identifies the terms related to a circle.	M5GE-IIIId-23.2	1. Mathematics for Everyday Life Grade 4. 2000. pp. 180-181*	Compass, blackboard

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					2. Grade School Mathematics Grade 4. 2003. p. 192* 3. Lesson Guide in Elem. Mathematics Grade 4. 2012. pp. 280-284	
			68. draws circles with different radii using a compass.	M5GE-IIIe-24		1. Compass, blackboard 2. Compass (For student)
			69. visualizes and describes solid figures.	M5GE-IIIe-25	1. Mathematics for Everyone Grade 5. 2000. pp. 188, 190* 2. BALS Video – Shapes and Figures Around Us	
			70. makes models of different solid figures: cube, prism, pyramid, cylinder, cone, and sphere using plane figures.	M5GE-IIIe-26		
Patterns and Algebra	demonstrates understanding of the concept of sequence and solving simple equations.	1. is able to apply the knowledge of sequence in various situations. 2. is able to use different problem	71. formulates the rule in finding the next term in a sequence. e.g. 1, 3, 7, 15, (15 x 2+1) Possible answers: (x 2 + 1) (+2, +4, +8, +16)	M5AL-III f-6		

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
		solving strategies.	72. uses different strategies (looking for a pattern, working backwards, etc.) to solve for the unknown in simple equations involving one or more operations on whole numbers and fractions. e.g. $3 \times _ + 1 = 10$ (the unknown is solved by working backwards)	M5AL-III f-14		
Measurement	demonstrates understanding of time and circumference.	is able to apply knowledge of time and circumference in mathematical problems and real-life situations.	73. measures time using a 12-hour and a 24-hour clock.	M5ME-III g-14	1. NFE Accreditation and Equivalency Learning Material. Time. 2001. pp. 5-13 2. NFE Accreditation and Equivalency Learning Material. Oras. 2001. pp. 5-14	
			74. calculates time in the different world time zones in relation to the Philippines.	M5ME-III g-15		
			75. solves problems involving time.	M5ME-III g-16	1. Mathematics for Everyday Life Grade 4. 2000. pp. 199, 202-203* 2. NFE Accreditation and Equivalency Learning Material. Time. 2001. pp. 20-33	
			76. visualizes circumference of a circle.	M5ME-III h-67	1. BEAM LG Gr. 5 Module 2 – Circumference 2. Mathematics for Everyone Grade 5. 2000. p. 194*	Compass, blackboard

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			77. measures circumference of a circle using appropriate tools.	M5ME-IIIh-68	Mathematics for Everyone Grade 5. 2000. pp. 194-196*	<ol style="list-style-type: none"> 1. Meterstick, plastic 2. Ruler, 12" or 30cm 3. Tape Measure, 1.5 meter
			78. derives a formula in finding the circumference of a circle.	M5ME-IIIi-69	<ol style="list-style-type: none"> 1. BEAM LG Gr. 5 Module 2 – Circumference 2. Lesson Guide in Elem. Math Gr. 5 p.362 3. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 301-304 4. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 362-366 5. Mathematics for Everyone Grade 5. 2000. p. 195* 6. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 362-366 	
			79. finds the circumference of a circle.	M5ME-IIIi-70	<ol style="list-style-type: none"> 1. DLP Gr. 5 Module 52 2. BEAM LG Gr. 5 Module 2 – Circumference 3. Lesson Guide in Elem. Math Gr. 5 p.366 4. MISOSA Gr. 5 Module – Circumference of a Circle 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 304-307 6. Lesson Guide in Elem. 	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Mathematics Grade 5. 2010. pp. 366-369 7. Mathematics for Everyone Grade 5. 2000. pp. 196-197* 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 366-369 9. NFE Accreditation and Equivalency Learning Material. Measurement, Perimeter and Circumference. 2001. pp. 20-24	
			80. solves routine and non-routine problems involving circumference of a circle.	M5ME-IIIj-71	1. BEAM LG Gr. 5 Module 2 – Circumference 2. Lesson Guide in Elem. Math Gr. 5 p.369 3. MISOSA Gr. 5 Module – Word Problems on Circumference 4. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 307-309 5. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 369-372 6. Mathematics for Everyone Grade 5. 2000. pp. 198-199* 7. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 369-372	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
Grade 5- FOURTH QUARTER						
Measurement	demonstrates understanding of area, volume and temperature.	is able to apply knowledge of area, volume and temperature in mathematical problems and real-life situations.	81. visualizes area of a circle.	M5ME-IVa-72	1. BEAM LG Gr. 5 Module 14 – Area 2. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 382-386	1. Compass, blackboard 2. Circle Area Demonstrator
			82. derives a formula in finding the area of a circle .	M5ME-IVa-73	1. DLP Gr. 5 Module 49 2. BEAM LG Gr. 5 Module 14 – Area 3. Lesson Guide in Elem. Math Gr. 5 p.382 4. MISOSA Gr. 5 Module – Area of a Circle	
			83. finds the area of a given circle.	M5ME-IVa-74	1. DLP Gr. 5 Module 53 2. BEAM LG Gr. 5 Module 14 – Area 3. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 317-320 4. Lesson Guide in Elem. Math Gr. 5. 2012. pp. 382-386	
			84. solves routine and non-routine problems involving the area of a circle.	M5ME-IVb-75		
			85. creates problems involving a circle, with reasonable answers.	M5ME-IVb-76		
			86. visualizes the volume of a cube and rectangular prism.	M5ME-IVc-77	1. Lesson Guide in Elem. Math Gr. 5 p. 389, Gr. 6 p. 384 2. Mathematics for Everyone Grade 5. 2000. p. 206* 3. BALS Video – Lesson 1: Units of Volume	1. Models Of Deriving Formula For Volume: 1000 pcs – 1 cm linking plastic cubes

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
						2. Volume demonstrator set: Includes the following: Cylinder and Cone Volume Comparing Tool, Quadrangular Volume Demonstrator
			87. names the appropriate unit of measure used for measuring the volume of a cube and a rectangle prism.	M5ME-IVc-78	<ol style="list-style-type: none"> Lesson Guide in Elem. Math Gr. 6 p.391 Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 323-325 Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 389-391 Mathematics for Everyone Grade 5. 2000. p. 206* Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 389-391 BALS Video – Lesson 2: Measuring Volume 	
			88. derives the formula in finding the volume of a cube and a rectangular prism using cubic cm and cubic m.	M5ME-IVc-79	<ol style="list-style-type: none"> DLP Gr. 6 Module 57 Lesson Guide in Elem. Math Gr. 5 p.392, Gr. 6 p. 388 Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 395-399 Lesson Guide in Elem. Mathematics Grade 6. 	Basic 3-Dimensional Models

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					2010. pp. 391-394 5. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 395-399 6. BALS Video – Lesson 2: Measuring Volume	
			89. converts cu. cm to cu. m and vice versa; cu.cm to L and vice versa.	M5ME-IVd-80	1. DLP Gr. 5 Module 54 2. BEAM LG Gr. 5 Module 18 – Volume 3. Lesson Guide in Elem. Math Gr. 5 p.395 4. MISOSA Gr. 5 Module – Volume of a Rectangular Prism 5. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 325-327 6. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 392-395 7. Lesson Guide in Elem. Mathematics Grade 6. 2010. pp. 388-390 8. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 392-395 9. Lesson Guide in Elem. Mathematics Grade 6. 2012. pp. 388-390	
			90. finds the volume of a given cube and rectangular prism using cu. cm and cu. m.	M5ME-IVd-81	1. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 328-331 2. Lesson Guide in Elem. Mathematics Grade 6. 2005. pp. 370-373 3. Mathematics for	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Everyone Grade 5. 2000. pp. 210-211* 4. Lesson Guide in Elementary Mathematics Grade 6. 2012. pp. 391-394 5. BALS Video – Lesson 2: Measuring Volume	
			91. estimates and uses appropriate units of measure for volume.	M5ME-IVd-82	1. DLP Gr. 5 Module 55 2. BEAM LG Gr. 5 Module 18 – Volume 3. Lesson Guide in Elem. Math Gr. 5 p. 399 4. BALS Video – Lesson 1: Units of Volume	
			92. solves routine and non-routine problems involving volume of a cube and rectangular prism in real-life situations using appropriate strategies and tools.	M5ME-IVe-83	1. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 332-334 2. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 399-402 3. Mathematics for Everyone Gr. 5. 2000. pp. 212-213* 4. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 399-402 5. BALS Video – Lesson 2: Measuring Volume	
			93. creates problems (with reasonable answers) involving volume of a cube and rectangular prism in real-life situations.	M5ME-IVe-84	1. DLP Gr. 5 Module 56 2. BEAM LG Gr. 5 Module 19 – Temperature 3. Lesson Guide in Elem. Math Gr. 5 p.305	
			94. reads and measures temperature using	M5ME-IVf-85	1. Lesson Guide in Elem. Mathematics Grade 5.	1. Clinical Thermometer,

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			thermometer (alcohol and/or digital) in degree Celsius.		2005. pp. 336-339 2. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 405-408 3. Mathematics for Everyday Life Grade 4. 2000. pp. 204-205* 4. Grade School Mathematics Grade 4. 2003. pp. 218-219* 5. Mathematics for Everyone Gr. 5. 2000. pp. 214-215* 6. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 402-408	digital 2. Thermometer, Alcohol, -20°C to 110°C
			95. estimates the temperature(e.g. inside the classroom).	M5ME-IVf-86	1. DLP Gr. 5 Module 57 2. BEAM LG Gr. 5 Module 19 – Temperature 3. Lesson Guide in Elem. Math Gr. 5 p.409 4. MISOSA Gr. 5 Module – Temperature	
			96. solves routine and non-routine problems involving temperature in real-life situations.	M5ME-IVf-87	1. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 339-342 2. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 409-412 3. Mathematics for Everyday Life Grade 4. 2000. pp. 206-207* 4. Grade School Mathematics Grade 4. 2003. pp. 219, 221* 5. Lesson Guide in Elem.	

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
					Mathematics Grade 5. 2012. pp. 409-412	
			97. creates problems involving temperature, with reasonable answers.	M5ME-IVg-88		
Statistics and Probability	demonstrates understanding of line graphs and experimental probability.	is able to create and interpret representations of data (tables and line graphs) and apply experimental probability in mathematical problems and real-life situations.	98. collects data on one to two variables using any source.	M5SP-IVg-1.5	1. BEAM LG Gr. 5 Module 20 – Line Graph 2. Lesson Guide in Elem. Math Gr. 5 p.417 3. MISOSA Gr. 5 Module – Line Graph	
			99. organizes data in tabular form and presents them in a line graph.	M5SP-IVg-2.5	1. DLP Gr. 5 Module 58, 59 2. BEAM LG Gr. 5 Module 20 – Line Graph 3. Lesson Guide in Elem. Math Gr. 5 p.412 4. Lesson Guide in Elem. Mathematics Gr. 5. 2012. pp. 417-421	
			100. interprets data presented in different kinds of line graphs (single to double-line graph).	M5SP-IVh-3.5	1. Lesson Guide in Elem. Mathematics Grade 5. 2005. pp. 342-346 2. Lesson Guide in Elem. Mathematics Grade 5. 2010. pp. 412-417 3. Lesson Guide in Elem. Mathematics Grade 5. 2012. pp. 412-417	
			101. solves routine and non-routine problems using data presented in a line graph.	M5SP-IVh-4.5		
			102. draws inferences based on data presented in a line graph.	M5SP-IVh-5.5		

K to 12 BASIC EDUCATION CURRICULUM

CONTENT	CONTENT STANDARDS	PERFORMANCE STANDARDS	LEARNING COMPETENCY	CODE	LEARNING MATERIALS	MATH EQUIPMENT
	The learner...	The learner...	The learner...			
			103. describes experimental probability.	M5SP-IVi-14		
			104. performs an experimental probability and records result by listing.	M5SP-IVi-15		Calculator, Scientific
			105. analyzes data obtained from chance using experiments involving letter cards (A to Z) and number cards (0 to 20).	M5SP-IVi-16		
			106. solves routine and non-routine problems involving experimental probability.	M5SP-IVj-17		
			107. creates routine and non-routine problems involving experimental probability.	M5SP-IVj-18		

K to 12 BASIC EDUCATION CURRICULUM

GLOSSARY

Accuracy	the quality of being correct and precise.
Applying	the skill of using concepts, procedures, algorithms and other mathematical constructs in practical situations and phenomena.
Communicating	the use of notations, symbols, figures, equations and functions to convey mathematical ideas.
Computing	the skill of calculating using correct algorithms, procedures and tools to arrive at a final exact result.
Conjecturing	the skill of formulating mathematical theories that still need to be proven.
Connecting	the skill of integrating mathematics to other school subjects and other areas in life.
Constructivism	the theory that knowledge is constructed when the learner is able to draw ideas from his/her own experiences and connects them to new ideas that are encountered.
Context	a locale, situation, or set of conditions of students that may influence their study and use of mathematics to develop critical thinking and problem solving skills.
Cooperative Learning	learning that is achieved by working with fellow learners as they all engage in a shared task.
Creativity	the skill of using available procedures in Mathematics and non-conventional methods to solve a problem and produce answers.
Critical Thinking	the intellectually disciplined process of actively and skillfully conceptualizing, applying, analyzing, synthesizing, and/or evaluating information gathered from, or generated by, observation, experience, reflection, reasoning, or communication, as a guide to belief and action (Scriven & Paul, 1987).
Decision-making	the skill of arriving at a choice or decision based on sound, logical procedures and mathematical analyses.
Discovery Learning	learning that is achieved by allowing students to discover new ideas using their experiences (Bruner, 1961).
Estimating	the skill of roughly calculating or judging a numerical value or quantity.
Experiential Learning	learning that occurs by making sense of direct everyday experiences (Kolb, 1984)
Inquiry-based Learning	learning that focuses on students asking questions and finding answers to their questions using their personal experiences.
Knowing and Understanding	meaningful acquisition of concepts that include memorizing and recalling of facts and procedures
Mathematical Problem Solving	finding a solution to a problem that is unknown (Polya, 1945 & 1962).
Modeling	the use of functions and graphs to represent relationships between and among quantities in a phenomenon.
Objectivity	the quality of judging, evaluating and making decisions based on mathematical facts and results without being influenced by subjective conditions.

K to 12 BASIC EDUCATION CURRICULUM

GLOSSARY

Perseverance	firmness in finishing a task despite difficulties and obstacles.
Productivity	the quality of pursuing an activity to arrive at a meaningful and useful result or product.
Proving	the skill of demonstrating the truth or falsity of a theory using reasoning and arguments.
Reasoning	the process of explaining using sound analyses, following the rules of logic.
Reflective Learning	learning that is facilitated by deep thinking.
Representing	the use of figures and shapes, variables, equations and functions to concretize and illustrate quantities and their relationships.
Situated Learning	learning in the same context in which concepts and theories are applied.
Solving	to find the answer to an algebraic or mathematical problem using any procedures and tools available.
Visualizing	using one's creativity and imagination to produce images, pictures and other means to represent and understand mathematical concepts (MATHTED & SEI, 2010).

K to 12 BASIC EDUCATION CURRICULUM

Code Book Legend

Sample: M7AL-IIg-2

LEGEND		SAMPLE		DOMAIN/ COMPONENT	CODE
First Entry	Learning Area and Strand/ Subject or Specialization	Mathematics	M7	Number Sense	NS
	Grade Level	Grade 7		Geometry	GE
Uppercase Letter/s	Domain/Content/ Component/ Topic	Patterns and Algebra	AL	Patterns and Algebra	AL
			-		
Roman Numeral <i>*Zero if no specific quarter</i>	Quarter	Second Quarter	II	Measurement	ME
Lowercase Letter/s <i>*Put a hyphen (-) in between letters to indicate more than a specific week</i>	Week	Week seven	g		
			-		
Arabic Number	Competency	Solves problems involving algebraic expressions	2	Statistics and Probability	SP

K to 12 BASIC EDUCATION CURRICULUM

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