CONNEAUT AREA SCHOOL DISTRICT			
MATHEMATICS			
UNIT OF STUDY: operations	COURSE/GRADE: 5	# WEEKS: 6	
MODULE 2		 Multi-Digit Whole Number and 	
		Decimal Fraction Operations	
Focus (emphasis) Standards/EC:		Technology/manipulatives:	
CC.2.1.5.B.2 – Extend an understanding of		Calculators; grid paper; white boards and	
operations with whole numbers to perform		markers; decimal place-value charts	
operations including decimals		(see Grade 5 Module 2 attachment for examples of usage)	
<pre>-Eligible Content: * M05.A-T.2.1.1: multiply multi-digit whole numbers (not to exceed 3-digit by 3-digit)</pre>		Frayer Model graphic organizer (note-taking)	
*M05.A-T.2.1.2: find whole-number quotients of whole numbers with up to 4-digit dividends and 2-digit divisors		Dry-erase boards, eno-board	
*M05.A-T.2.1.3: add, subtract, multiply, and divide decimals to hundredths (no divisors with decimals)		National Library of Virtual Manipulatives (base block decimals – add and subtract decimal	
CC.2.2.5.A.1 – Interpret and evaluate numerical		values using base blocks)	
expressions using order of operations		Illuminations: Order of Operations BINGO	
-Eligible Content:		studyzone.org (resources and interactive	
* M05.B-O.1.1: use multiple grouping symbols		practice)	
(parentheses, brackets, or braces) in numerical expressions and evaluate expressions containing these symbols.		www.studyisland www.firstinmath.com	
* M05.B-O.1.1.2: write simple expressions that model		xpmath.com	
calculations with numbers and interpret numerical expressions		Apmath.com	
without evaluating them (Express the calculation "add 8 and 7, then multiply by 2" as			
2x(8+7) Recognize that 3 x (18,932 + 921) is three times as			
large as 18,932 + 921 without having to calculate the indicated			
sum or product)			
Important (reinforced) Standard	ls/EC:	Reading, writing, speaking strategies:	
		Journaling, read aloud, lecture, word	
There are no standards currently	aligned to this	problems,	
resource.		persuasive/informational/expository writing,	
		graphic organizers, Frayer model, cooperative	
		learning, board work, demonstration, Think-	
		Pair-Share, note-taking, crossword puzzles, ,	
		bell-ringers	
Vocabulary:		Questioning and discussion techniques:	
Additive identity property of 0; n	nultiplicative	Bell-ringers; exit tickets; journals; Frayer	
identity property of 1; associative/commutative		Model; highlighting key terms; small group/	
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whole group; demonstrations; homework

review; dry-erase checks

property of addition/multiplication; distributive

compatible numbers; algorithm; area model; array;

property; braces; brackets; parentheses;

dividend; divisor; quotient; remainder; product; factor; sum; estimate; evaluate; exponent; expression; inverse operations; unit fractions Real life application: Career options: http://www.xpmath.com/careers/topicsresult.php?subjectID=3&topicID=14	Performance assessment: http://www.sandi.net/Page/62252
Computation: Multiply multi-digit whole numbers, not to exceed 3-digits by 3-digits; find whole numbers quotients of whole numbers with up to 4-digit dividends and 2-digit divisors; add, subtract, multiply and divide decimals to hundredths (no divisors with decimals); use multiple grouping symbols (parentheses, brackets, or braces) in numerical expressions, and evaluate expressions containing these symbols; write simple expressions that model calculations with numbers; interpret numerical expressions without evaluating them	Accommodations/adaptations: Grid paper for organization; calculators for checking accuracy; place-value charts Differentiation strategies, small group instruction, cooperative learning, guided practice, peer tutoring, limited problems/choices, manipulatives and models, clarity checks, diagrams and graphs
SAS Module Resources: pdesas.org *Teacher Tools-Curriculum Mapping-Instructional Frameworks Math-PA Standards: Focus and Important Standards * Math Cluster Matrix grades 4,5,6 (prior and future learning)	