CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS	
UNIT OF STUDY: addition and COURSE/GRAD	
subtraction of fractions	# WEEKS. /
MODULE 3	Addition and subtraction of fractions
Focus (emphasis) Standards/EC:	Technology/manipulatives:
CC.2.1.5.C.1 – Use the understanding of equivalent to add and subtract fractions -Eligible Content: * M05.A-F.1.1.1: add and subtract fractions (including mix numbers) with unlike denominators. (May include multiple methods and representations) (2/3 + 5/4 = 8/12 + 15/12 = 23/12)	Number lines, area models, fraction bars/strips (see Grade 5 Module 3 attachment for examples of usage)
Important (reinforced) Standards/EC: CC.2.4.5.A.4 – Solve problems involving computation of fractions using information provided in a line plot -Eligible Content: * M05.D-M.2.1.1: solve problems involving computation of fractions by using information presented in line plots * M05.D-M.2.1.2: display and interpret data shown in tallitables, charts, pictographs, bar graphs, and line graphs, and a title, appropriate scale, and labels. A grid will be provided to display data on bar graphs or line graphs	bell-ringers se
Vocabulary: Associative/commutative property of addition; benchmark/equivalent/unit fractions; mixed number; numerators; denominators; like/unlike/common denominators; common multiples; fraction greater than/less than 1; simplify; simplest form; lowest terms; addend; minuend; difference; sum; reasonableness; line pl	Questioning and discussion techniques: Bell-ringers; exit tickets; journals; Frayer Model; highlighting key terms; small group/ whole group; demonstrations; homework review; dry-erase checks
Real life application:	Performance assessment:

Career options: http://www.xpmath.com/careers/topicsresult.php? subjectID=3&topicID=14	
Computation: Add and subtract fractions (including mixed-numbers) with unlike denominators; forming units to solve word problems where units are equal in size (referring to the same whole); solve problems using computation of fractions by using information presented in line plots; explain operations as they pertain to fractions; mental computations and estimation to determine reasonableness of answers; using a number line to solve multiplication and division problems with whole numbers	Accommodations/adaptations: Agendas,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)	