CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS – MODULE FOUR		
UNIT OF STUDY: **Multiplication and Area**	COURSE/GRADE: **3**	# WEEKS: 2
Focus (emphasis) Standards/EC CC.2.4.3.A.5 Determine the area of a rectangle and apply the concept to multiplication and addition.		***Technology/manipulatives*** Study Island; ixl.com; firstinmath.com; youtube.com; multiplication.com; multiplication tables; multiplication arrays; grid paper; rulers
Important (reinforced) Standards/EC CC.2.2.3.A.1 Represent and solve problems involving multiplication and division. CC.2.2.3.A.2 Understand properties of multiplication and the relationship between multiplication and division. CC.2.2.3.A.4 Solve problems involving the four operations, and identify and explain patterns in arithmetic.		***Reading, writing, speaking strategies*** Journaling; write stories to match given area equations; act out a story problem; explain the distributive property of multiplication
Vocabulary • rectangular array • square unit • length • width • rows • columns • area		***Questioning and discussion techniques*** • How would you describe the problem in your own words? • How would you describe what you are trying to find? • What do you notice about…? • What information is given in the problem? • Describe the relationship between the quantities. • Describe what you have already tried. What might you change? • Talk me through the steps you've used to this point. • What steps in the process are you the most confident about?

	• What are some other strategies you might try? • What are some other problems that are similar to this one? • How might you use one of your previous problems to help you begin? • How else might you organize… represent…show..?
Real life application Find the area of objects in the environment (playground, classroom, etc.	***Performance assessment examples:*** Formative assessments can be taken from *Crosswalk Coach* Lessons 14, 27, 28, 29, 36 *Buckle Down* Lessons 11, 25, 26, 27, 28, 29
Computation • Measure areas by counting square units (square cm, square m, square in., square ft, and non-standard square units). • Multiply to find the area of a rectangle • Multiply using an array • Multiply side lengths to find areas of rectangles with whole-number side lengths in the context of solving real-world and mathematical problems, and represent whole-number products as rectangular areas in mathematical reasoning. • Multiply 1-digit whole numbers by 2-digit multiples of 10 (10-90)	***Accommodations/adaptations*** Word problems read aloud; Study Island 3-tiered lessons for reinforcement; availability of manipulatives as needed; word bank with pictures
SAS Module Resources Finding the area of a rectangle: www.pdesas.org/module/content/resources/66567/view.ashx	