Planned Course: Algebra II	Course Number: M305 Grade Level: 8-12 Level/Track:	Department: Mathematics Date Approved: 7/15/08	
Unit: Rational Expressions Estimated Time: 18 days			
PA Academic Standards	Core Concepts (in question format) Skills/Knowledge	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)
ASSESSMENT ANCHOR			
M11.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.	What are rational expressions?	Students will factor all numerators and denominators.	 Graded Homework Classroom Observation
M11.D.2.2 Simplify expressions involving polynomials. M11.D.2.2.3 Simplify algebraic	 Students will be able to multiply and divide rational expressions. Students will be able to 	2. Students will cancel identical factors in a one-for-one numerator/denominator procedure.	Online Quiz/TestIn Class Quiz/TestParticipation
fractions.	solve equations that contain rational expressions.	3. Students will change all divisions to products by inversion of divisor.	 Graded Class work Projects
M11.D.2.2.1 Add, subtract and/or multiply polynomial expressions (express answers in simplest form – nothing larger than a binomial multiplied by a trinomial).	Students will be able to add and subtract rational expressions.	4. Students will multiply simplified fractions for final answer.	
M11.D.2.2.2 Factor algebraic expressions, including difference of squares and trinomials (trinomials limited to the form ax²+bx+c where a is not equal to 0). M11.D.2.2.3 Simplify algebraic fractions.		 5. Students will factor denominator to find LCD. 6. Students will convert all fractions to those with LCD and add fractions for final answer. 	