



Dear 8<sup>th</sup> grade mathematics teacher:

Mount de Sales Academy will be holding placement assessments for incoming students who wish to place out of Algebra 1 or Geometry on March 13<sup>th</sup> and 16<sup>th</sup>. The Mount de Sales math department uses this assessment together with standardized test scores, middle school grades, and feedback from the 8<sup>th</sup> grade math teacher to determine freshman year math placement.

**Any student who registers for the Math placement assessment must have this verification form returned to Mount de Sales by March 13<sup>th</sup>.** Before completing this form, please review our school's Algebra I curriculum (pages 2-3 of this document); any feedback regarding Algebra I should be based on a student's mastery of these concepts. We have found that if a student has not mastered Algebra I, it is extremely difficult for her to be successful in later mathematics classes, especially at an honors level.

**Student Name:** \_\_\_\_\_

**Your Name:** \_\_\_\_\_

**School:** \_\_\_\_\_

1. Which of these course(s) will the student have completed by the end of 8<sup>th</sup> grade? Please check all that apply.

- Algebra I (completed over two years)
- Algebra I (completed over one year)
- Geometry (partial course)
- Geometry (complete course)
- Algebra II (partial course)
- Algebra II (complete course)

Note: It is possible for a student to place out of Geometry but need to retake Algebra I, if that is what her MDSA placement test indicates.

***Please include your school's curriculum for any courses you've checked.***

Comments:

2. What topics do you anticipate completing after the math placement test?

Thank you for your help with this process. Please contact Sister Peter Verona, Mathematics Department Chair ([spv@mountdesales.org](mailto:spv@mountdesales.org)) with any questions.

**SUBMIT ALL FORMS TO MOUNT DE SALES BY MARCH 13, 2019.**

Mail To:

Mount de Sales Academy -Admissions  
700 Academy Road  
Catonsville MD 21228

OR Email to:

admissions@mountdesales.org



**VI. Polynomial Expressions**

1. Simplify expressions with positive integer exponents
2. Add and subtract polynomials
3. multiply monomials
4. use rule of exponents for products and powers with nonnegative exponents
5. multiply binomials using FOIL
6. multiply binomials and polynomials

	X
	X
	X
	X
X	
X	

**VII. Factoring Polynomial Expressions**

1. Find GCF of monomials
2. Divide polynomials by monomials
3. Factor polynomials using GCF
4. Factor using difference of two squares *when leading coefficient is 1*
5. Factor perfect square trinomial *when leading coefficient is 1*
6. Factor trinomials with integer coefficients
7. Solve quadratic equations with factoring

	X
	X
	X
	X
	X
X	
X	

**VIII. Quadratic Equations**

1. Recognize the parabola as graph of quadratic equation.
2. Solve quadratic equations using factoring
3. Use quadratic formula to solve quadratic equations

X	
X	
X	

**IX. Rational Numbers, Expressions, Equations**

1. Differentiate between integers, rational, and irrational numbers
2. Transform fractions, decimals, and percent's.
3. Compare magnitude of numbers in fractional, decimal, irrational, integer form
4. Simplify rational algebraic expression
5. Multiply and divide algebraic expressions
6. Write proportions as ratios and fractions
7. Add and subtract rational algebraic expressions
8. Solve proportions involving rational algebraic expressions
9. Simplify complex fractions
10. Solve equations with fractional and decimal coefficients

	X
	X
	X
X	
X	
	X
X	
	X
X	
X	

**X. Extending Number Systems**

1. Recognize irrational number as non-repeating, non-terminating decimal.
2. Find square root of numbers with rational square roots

	X
	X

**SUBMIT ALL FORMS TO MOUNT DE SALES BY MARCH 13, 2019.**

Mail To:

Mount de Sales Academy -Admissions  
 700 Academy Road  
 Catonsville MD 21228

OR Email to:

admissions@mountdesales.org