

St. Charles Catholic High School
Summer Math Assignment Instructions
 2026-2027

- Students must complete the following assignments if they are enrolled in **Pre-Algebra** for the 2026-2027 school year. (Assignments are based on the highest math that the student has completed.)
- These assignments should be worked on throughout the summer and are due **August 7**.
- Please do not try to complete all of these assignments in one day.
- Students will receive a quiz grade for these assignments for the first quarter of 2026 if they achieve the Smart Score for each section as indicated in the chart below for their course phase (academic/honors.)
- These assignments may be completed on any computer and most tablets/iPads as long as the student is logged in with the proper username and password.
- **IXL Login information:** Use the username and password provided to you in the entrance packet if you are a new student. If you are a continuing student, please use the username and password from this past year.
- If you have a problem or any questions, please contact Mrs. Joneva Beckmann at beckmann.joneva@stcharlescatholic.org, Mrs. Loretta Hart at hart.loretta@stcharlescatholic.org, or Mrs. Karlie Poirrier at poirrier.karlie@stcharlescatholic.org. (These assignments are accurate as of May 20. In case any assignment code (letter/number) does not match the description, please contact Mrs. Beckmann. IXL sometimes updates/changes codes during the summer causing the code and description not to match. **The description of the assignment is what each student needs to make sure matches what they complete.** Again, please contact Mrs. Beckmann if it does not match in case updates occur after this has been released. We are sorry for any inconvenience this may cause.)
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Pre-Algebra IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Smart Score
7 th Grade	E1	Prime Factorization	80
	B12	Add and Subtract Integers	80
	B22	Multiply and Divide Integers	80
	C2	Compare and Order Decimals	80
	F3	Write Fractions in Lowest Terms	80
	F5	Least Common Denominator	80
	F8	Convert mixed number to improper fraction	80
	G1	Add/Subtract Fractions	80
	G8	Multiply fractions	80
	G12	Divide fractions	80

St. Charles Catholic High School

Summer Math Assignment Instructions

2026-2027

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Algebra I- all levels IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Academic Smart Score	Honors Smart Score
8 th Grade	A4	Add/Subtract integers	80	90
	A8	Multiplying/Division Integers	80	90
	A9	Evaluate numerical expressions involving integ	80	90
	B2	Convert between decimals/fractions/mixed #s	80	90
	B5	Reciprocals and multiplicative inverses	80	90
	B7	Add and Subtract rational #s: word problems	80	90
	B6	Add & Subtract rational numbers	80	90
	B9	Multiply & divide rational numbers	80	90
	B10	Multiply and divide rational #s: word problems	80	90
	B13	Evaluate numerical expressions involving rational numbers	80	90
	E1	Square Roots of Perfect Squares	80	90
	G1	Solve proportions	80	90
	H1	Convert Between Percents, Fractions, Decimals	80	90
	K7	Evaluate absolute value expressions	80	90
	L2	Multiply using the distributive property	80	90
	L4	Add & subtract like terms	80	90
	M7	Solve one step equations	80	90
	M8	Solve two step equations	80	90

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Summer Math Assignment Instructions

2026-2027

- Students must complete the following assignments if they are enrolled in **Geometry- all levels** for the 2026-2027 school year. (Assignments are based on the highest math that the student has completed.)
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Geometry- all levels IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Academic Smart Score	Honors Smart Score
Algebra 1	C7	Solve One Step Linear Equations	80	90
	C8	Solve Two Step Linear Equations	80	90
	C10	Solve Multi Step Linear Equations	80	90
	C12	Solve Linear Equations with Variables on Both Sides	80	90
	C17	Solve Linear Equation: Mixed Review	80	90
	D1	Area and Perimeter: Word Problems	80	90
	K2	Find the Slope from Two Points	80	90
	W5	Add Polynomials to Find Perimeter	80	90
	W12	Multiply Polynomials to Find Area	80	90

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Summer Math Assignment Instructions

2026-2027

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- These assignments may be completed on any computer and most tablets/iPads as long as the student is logged in with the proper username and password that was used to register with Mathxlforschool.com in May with the help of Mrs. Beckmann or other math instructor at the end of the year.
- **MathXlforschool Login information:** Use the username and password that you created when registering for mathxlforschool in May or the username and password from last year.
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 - The following assignments can be found at www.mathxlforschool.com

Algebra II -all levels MathXlforschool ASSIGNMENTS:

Lesson Name	Chapter of Assignment	Description of Assignment	Academic Score	Honors Score
Orientation	Orientation	Problems to show how to use the program	80	90
Summer work # 1	Ch 1 sec 1&2	Change from verbal to algebraic expression; order of operations	80	90
Summer work #2	Ch2 sec 2	Solve 2 step equations	80	90
Summer work #3	Ch 1 sec 4; Ch 2 sec 3	Properties; solve multi step equations	80	90
Summer work #4	Ch2 sec 4	Solve equations with variable on both sides and multi-step equations	80	90
Summer work #5	Ch 5 sec 1	Find slope from 2 points, graphs, equations	80	90
Summer work #6	Ch 8 sec 1&3	Add/subtract polynomials; multiply polynomials by FOIL	80	90

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Summer Math Assignment Instructions

2026-2027

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- The following assignments can be found at www.mathxlforschool.com

Advanced Math I Academic MathXLforschool ASSIGNMENTS:

Lesson name	Chapter of Assignment	Description of Assignment	Academic Score
Lesson 1	Ch 1 sec 3, 4, 5	Write algebraic expressions that model word phrases; evaluate algebraic expressions for given replacement values; determine domain of a variable; solve linear equations; solve inequalities and graph (set and interval notation)	80
Lesson 2	Ch 2 sec 1, 3, 4	Identify functions, domain, range; find slope, y-intercept; graph linear equations	80
Lesson 3	Ch 4 sec 4 & 5	Factor polynomials with common factors; factor difference of 2 squares; factor perfect squares; factor $1x^2 + bx + c$; factor $ax^2 + bx + c$; solve quadratic equations by factoring	80
Lesson 4	Ch 4 sec 7	Solve quadratic equations using quadratic formula; Use the discriminant to determine number of solutions	80

St. Charles Catholic High School
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 2026-2027

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- The following assignments can be found at www.mathxlforschool.com for honors advanced math.

Adv Math Honors (MathXlforschool) ASSIGNMENTS:

Lesson name	Chapter of Assignment	Description of Assignment	Honors Score
Lesson 1	R2	Simplify expressions containing exponents or radicals; write & graph inequalities (interval and set notation); evaluate algebraic expressions for given replacement values; determine domain of a variable; simplify expressions containing exponents or radicals	90
Lesson 3	R5	Factor polynomials with common factors; factor difference of 2 squares; factor perfect squares; factor $1x^2 + bx + c$; factor $ax^2 + bx + c$; factor by grouping; factor completely using various methods	90
Lesson 6	Sec 1-5	Convert between inequalities, graphs of inequalities, and interval notation; solve inequalities (write in set notation and interval notation); solve combined inequalities; find domain of variables in radical expressions	90
SEAlg2 review recommended	R2,R3, R4, R5,R7, R8	Mixture of algebra 2 skills review recommended by Southeastern to be prepared for College Algebra	90

St. Charles Catholic High School
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2026-2027

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Adv Math I DE/nonDE IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Honors Smart Score
Algebra 2	B1	Solve linear equations.	90
	B2	Solve linear equations: complete the solution.	90
	B4	Rearrange multi-variable equations.	90
	D1	Find the slope of a linear function.	90
	D2	Graph a linear function.	90
	H1	Domain and range of absolute value functions: graphs.	90
	M5	Factor quadratics.	90
	M7	Factor by grouping.	90
	N8	Domain and range of quadratic functions: graphs.	90
	O2	Solve a quadratic equation using the zero product property.	90
	O3	Solve a quadratic equation by factoring.	90
	O6	Solve a quadratic equation using the quadratic formula	90

St. Charles Catholic High School
Summer Math Assignment Instructions
2026-2027

- Students must complete the following assignments if you are enrolled in **Advanced Math II Honors (Statistics/Calculus)** for the 2026-2027 school year.
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- The following assignments can be found at www.mathxlforschool.com for honors courses.

Advanced Math II Honors (Statistics/Calculus) (Mathxlforschool) ASSIGNMENTS:

Lesson Name	Chapter of Assignment	Description of Assignment	Honors Score
Summer 1	Ch 1 sec 1,3,4	Find slopes; graph linear equations; domain and range; graph parabolas	90
Summer 2	Ch 2 sec 1,2	Solve exponential equations; solve equations with logarithms; solve quadratic equations; factor polynomials	90
Summer 3	Ch 1,2	Use order of operations; use radical and rational exponents; solve quadratic equations; solve equations with radicals; decompose functions	90

Summer Math Assignment Instructions 2026-2027

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Adv Math II DE/nonDE (Statistics) IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Honors Smart Score
Algebra 2	D1	Find the slope of a linear function.	90
	D3	Write the equation of a linear function.	90
	L8	Pascal's Triangle.	90
Precalculus	A4	Find values using function graphs.	90
	A5	Complete a table for a function graph.	90
	F8	Match polynomials and graphs using end behavior.	90
	H2	Match exponential functions and graphs.	90
	L5	Solve radical equations.	90
	M5	Solve equations with rational exponents.	90
	GG1	Outliers in scatter plots.	90

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Summer Math Assignment Instructions
2026-2027

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Calculus DE/nonDE IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Honors Smart Score
Algebra 2	D1	Find the slope of a linear function.	90
	D3	Write the equation of a linear function.	90
	AA1	Convert between exponential & logarithmic form.	90
	AA2	Convert between natural exponential & logarithmic	90
Precalculus	A4	Find values using function graphs.	90
	A5	Complete a table for a function graph.	90
	F8	Match polynomials and graphs using end behavior.	90
	H2	Match exponential functions and graphs.	90
	L5	Solve radical equations.	90
	M5	Solve equations with rational exponents.	90
			90

St. Charles Catholic High School

Summer Math Assignment Instructions

2026-2027

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Algebra 3 IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Academic Smart Score
Algebra 1	B2	Evaluate variable expressions involving integers	80
	B3	Evaluate variable expressions involving rational numbers	80
	B8	Sort factors of variable expressions	80
	B9	Simplify variable expressions involving like terms and the distributive property	80
	B10	Identify equivalent linear expressions	80
	C5	Identify equivalent equations	80
	C6	Model and solve linear equations using algebra tiles	80
	C7	Solve one-stop linear equations	80
	C8	Solve two-step linear equations	80
	C9	Solve one-step and two-step linear equations: word problems	80
	C10	Solve linear equations with variables on one side	80
	C12	Solve linear equations with variables on both sides	80
	C14	Solve linear equations: complete the solution	80
	C15	Find the number of solutions to a linear equation	80
	C17	Solve linear equations with variables on both sides: word problems	80
	C18	Rearrange multi-variable equations	80