

St. Charles Catholic High School

Summer Math Assignment Instructions

2021-2022

- Students must complete the following assignments if they are enrolled in **Pre-Algebra** for the 2021-2022 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 **September 1**.
- 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 2021 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 on card provided.**
- If you have a problem or any questions, please contact Mrs. Joneva Beckmann at beckmann.joneva@stcharlescatholic.org or Mrs. Christine Creppel at creppel.christine@stcharlescatholic.org. (These assignments are accurate as of May 31. 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.)
- The following assignments can be found at www.ixl.com.

Pre-Algebra IXL ASSIGNMENTS:

Grade/ Level	Assign ment	Description of Assignment	Smart Score
7 th Grade	A5	GCF	80
	C10	Integer Addition/Subtraction Rules	80
	C20	Integer Multiplication/Division Rules	80
	F8	Convert mixed number to improper fraction	80
	G1	Add/Subtract Fractions	80
	G3	Add/Subtract Mixed Numbers	80
	G7	Multiply fractions by whole numbers	80
	G9	Multiply fractions	80
	G10	Multiply Mixed Numbers	80
	G12	Divide fractions	80
	G13	Divide mixed numbers	80

St. Charles Catholic High School
Summer Math Assignment Instructions
 2021-2022

- Students must complete the following assignments if they are enrolled in **Algebra I- all levels** for the 2021-2022 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 **September 1**.
- 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 2021 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.
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- The following assignments can be found at www.ixl.com.

Algebra I- all levels IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Academic Standard Smart Score	Honors Smart Score	
8 th Grade	C.3	Add/Subtract integers	80	90	
	C7	Multiplying/Division Integers	80	90	
	E2	Add & Subtract rational numbers	80	90	
	E5	Multiply & divide rational numbers	80	90	
	E9	Evaluate variable expressions involving rational numbers	80	90	
	H10	Solve proportions	80	90	
	V7	Evaluate absolute value expressions	80	90	
	V13	Multiply using the distributive property	80	90	
	V15	Add & subtract like terms	80	90	
	W7	Solve one step linear equations	80	90	
	W8	Solve two step linear equations	80	90	

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Summer Math Assignment Instructions

2021-2022

- Students must complete the following assignments if they are enrolled in **Geometry- all levels** for the 2021-2022 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 **September 1**.
- 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 2021 if they achieve the score (percentage) 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 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.
- **MathXL Login information:** Use the username and password that you created when registering for mathxlforschool in May.
- If you have a problem or any questions, please contact Mrs. Joneva Beckmann at Beckmann.joneva@stcharlescatholic.org or Coach Ty Monica at monica.ty@stcharlescatholic.org or your future math instructor for the course you will be taking in 2021-2022.
- The following assignments can be found at www.mathxlforschool.com

Geometry MathXLforschool Assignments:

Lesson Name	Chapter of Assignment	Description of Assignment	Academic Score	Honors Score
Orientation	Orientation	Orientation	80	90
Summer Work #1	Ch 1 sec 3 Ch 2 sec 1,2,3,4,7	Estimate radicals; Solve 1 and 2 step equations; Solve multi-step equations and equations with variables on both sides; solve multi-step proportions	80	90
Summer Work #2	Ch 5 sec 3,6	Identify slope & y-intercept; write linear equations using slope-intercept; determine if lines are parallel, perpendicular, or neither	80	90
Summer Work #3	Ch 7 sec 1,2,8 Ch 8 sec 1,2,3,4	Geometric sequences; simplify expressions with negative exponents; multiply powers with the same base; add/subtract polynomials; classify polynomials, multiply polynomials- FOIL	80	90
Summer Work #4	Ch 9 sec 4 Ch 10 sec 1,2,3	Pythagorean Theorem; simplify radicals; add/subtract radical expressions	80	90

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Summer Math Assignment Instructions

2021-2022

- Students must complete the following assignments if you are enrolled in **Algebra II- All levels** for the 2021-2022 school year.
- These assignments should be worked on throughout the summer and are due **September 1**.
- 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 2021 if they achieve the score (percentage) 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 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. If you have a problem or any questions, please contact Mrs. Joneva Beckmann at Beckmann.joneva@stcharlescatholic.org or Mrs. Loretta Hart at hart.loretta@stcharlescatholic.org or your future math instructor for the course you will be taking in 2021-2022.
- 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	Ch 1 sec 4; Ch 2 sec 3	Properties; solve multi step equations	80	90
Summer work #3	Ch2 sec 4	Solve equations with variable on both sides and multi-step equations	80	90
Summer work #4	Ch 5 sec 1	Find slope from 2 points, graphs, equations	80	90
Summer work #5	Ch 5 sec 3	Slope-intercept form: Find slope & y-int; graphing using 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

2021-2022

- Students must complete the following assignments if you are enrolled in **Advanced Math I Academic** for the 2021-2022 school year.
- These assignments should be worked on throughout the summer and are due **September 1**.
- 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 2021 if they achieve the score (percentage) for each section as indicated in the chart below for their course phase.
- 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 Mathxforschool.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 mathxforschool in May.
- If you have a problem or any questions, please contact Mrs. Joneva Beckmann at Beckmann.joneva@stcharlescatholic.org or Mrs. Hart at hart.loretta@stcharlescatholic.org or your future math instructor for the course you will be taking in 2021-22.
- The following assignments can be found at www.mathxforschool.com

Advanced Math I Academic MathXlforschool ASSIGNMENTS:

Lesson name	Chapter of Assignment	Description of Assignment	Academic Score
Orientation	Orientation	Orientation of how to use mathxl.	80
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

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Summer Math Assignment Instructions

2021-2022

- Students must complete the following assignments if you are enrolled in **Advanced Math I DE/nonDE Honors** for the 2021-2022 school year.
- These assignments should be worked on throughout the summer and are due **September 1**.
- 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 2021 if they achieve the score (percentage) 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 that was used to register with Mathxl.com in May with the help of Mrs. Beckmann or other math instructor at the end of the year.
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- The following assignments can be found at www.mathxl.com.

Advanced Math I DE/nonDE Honors MathXL ASSIGNMENTS:

Lesson name	Chapter of Assignment	Description of Assignment	DE/nonDE Honors Score
Orientation	Orientation	Orientation of how to use mathxl.	90
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 2	R4	Multiply polynomials with single variables and with 2 variables; add & subtract polynomials;	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 4	R7	Reduce rational expressions; multiply & divide rational expressions; add & subtract rational expressions; simplify complex rational expressions	90
Lesson 5	R8	Simplify exponential expressions; vocabulary nth root; simplify expressions involving square roots & nth roots; rationalize denominators & numerators; simplify expressions involving rational exponents; evaluate expressions involving square roots & nth roots	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

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Summer Math Assignment Instructions
 2021-2022

- Students must complete the following assignments if you are enrolled in **Advanced Math II/Statistics and/or Calculus** for the 2021-2022 school year.
- These assignments should be worked on throughout the summer and are due **September 1**.
- 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 2021 if they achieve the score (percentage) 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 that was used to register with Mathxl.com in May with the help of Mrs. Beckmann or other math instructor at the end of the year.
- **MathXL Login information:** Use the username and password that you created when registering for mathxl in May.
- If you have a problem or any questions, please contact Mrs. Joneva Beckmann at Beckmann.joneva@stcharlescatholic.org or Mrs. Loretta Hart at hart.loretta@stcharlescatholic.org or your future math instructor for the course you will be taking in 2021-22.
- The following assignments can be found at www.mathxl.com

Advanced Math II/Statistics and/or Calculus MathXL ASSIGNMENTS:

Lesson Name	Chapter of Assignment	Description of Assignment	DE/nonDE Honors Score
Summer 1	Ch 1 sec 1,3,4	Fine 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

St. Charles Catholic High School
Summer Math Assignment Instructions
 2021-2022

- Students must complete the following assignments if you are enrolled in **Algebra III** for the 2021-2022 school year.
- These assignments should be worked on throughout the summer and are due **September 1**.
- 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 2021 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.
- If you have a problem or any questions, please contact Mrs. Joneva Beckmann at Beckmann.joneva@stcharlescatholic.org or Mrs. Christine Creppel at creppel.christine@stcharlescatholic.org (These assignments are accurate as of May 31. 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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Algebra III IXL ASSIGNMENTS:

Grade/ Letter	Assignment	Description of Assignment	Smart Score
A1(Algebra I)	J4	Solve 2 step linear equations	80
	J5	Solve advanced linear equations	80
	J6	Solve equations w/ variables on both sides	80
	S3	Find slope of a graph	80
	S4	Find slope from 2 points	80
	S6	Slope-intercept form: Find slope & y-int	80
	S7	Slope-intercept form: graph an equation	80
	Z4	Add and subtract polynomials	80
	Z8	Multiply 2 binomials	80
	AA4	Factor quadratics w/ leading coeff of 1	80