St. Charles Catholic High School
Summer Math Assignment Instructions
2023-2024

- Students must complete the following assignments if they are enrolled in **Pre-Algebra** for the 2023-2024 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 11.**
- 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 2023 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 have a problem or any questions, please contact Mrs. Joneva Beckmann at beckmann.joneva@stcharlescatholic.org, Mrs. Patty Forsythe at forsythe.patty@stcharlescatholic.org, or Mrs. Carly Flynn at flynn.carly@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	Assignment	Description of Assignment	Smart Score
7th Grade	A4	Divisibility Rules	80
	A5	GCF	80
	A6	LCM	80
	A7	GCF and LCM Word Problems	80
	C10	Integer Addition/Subtraction Rules	80
	C12	Add and Subtract Integers	80
	C21	Integer Multiplication/Division Rules	80
	C22	Multiply and Divide Integers	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
	G3	Add/Subtract Mixed Numbers	80
	G7	Multiply fractions and 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
2023-2024

- Students must complete the following assignments if they are enrolled in **Algebra I- all levels** for the 2023-2024 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 11.**
- 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 2023 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 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 school year.

- If you have a problem or any questions, please contact Mrs. Joneva Beckmann at Beckmann.joneva@stcharlescatholic.org, Mrs. Patty Forsythe at forsythe.patty@scccomets.org, or Mrs. Carly Flynn at flynn.carly@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.

Algebra I- all levels   IXL ASSIGNMENTS:

Grade/ Level	Assignment	Description of Assignment	Academic Standard Smart Score	Honors Smart Score
8th Grade	A1	Factors	80	90
	A2	Divisibility Rules	80	90
	A5	Greatest Common Factor	80	90
	A6	Least Common Multiple	80	90
	C.3	Add/Subtract integers	80	90
	C7	Multiplying/Division Integers	80	90
	G1	Write Fractions in Lowest Terms	80	90
	H2	Add & Subtract rational numbers	80	90
	H5	Multiply & divide rational numbers	80	90
	H9	Evaluate numerical expressions involving rational numbers	80	90
	J9	Solve proportions	80	90
	L1	Convert Between Percents, Fractions, Decimals	80	90
	X7	Evaluate absolute value expressions	80	90
	X13	Multiply using the distributive property	80	90
	X15	Add & subtract like terms	80	90
	Y7	Solve one step equations	80	90
	Y8	Solve two step equations	80	90

St. Charles Catholic High School
Summer Math Assignment Instructions
2023-2024

- Students must complete the following assignments if they are enrolled in **Geometry- all levels** for the 2023-2024 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 11.**
- 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 2023 if they achieve the score (percentage) for each section as indicated in the chart below for their course phase (academic/honors.). Students will need to enroll in their math course for the school year with a new course id on the first day of school for any courses using mathxl/mathxlforschool so they will not have access to the summer work after school begins. Therefore, they must complete the summer work by August 11 to ensure they will not receive a zero for this quiz grade in the first quarter.
- 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 2023-2024.
- 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

St. Charles Catholic High School
Summer Math Assignment Instructions
2023-2024

- Students must complete the following assignments if you are enrolled in **Algebra II– All levels** for the 2023-2024 school year.
- These assignments should be worked on throughout the summer and are due **August 11.**
- 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 2023 if they achieve the score (percentage) for each section as indicated in the chart below for their course phase (academic/honors.). Students will need to enroll in their math course for the school year with a new course id on the first day of school for any courses using mathxl/mathxlforschool so they will not have access to the summer work after school begins. Therefore, they must complete the summer work by August 11 to ensure they will not receive a zero for this quiz grade in the first quarter.
- 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.
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- 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 2023-2024.
  - 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

St. Charles Catholic High School
Summer Math Assignment Instructions
2023-2024

- Students must complete the following assignments if you are enrolled in **Advanced Math I Academic** for the 2023-2024 school year.
- These assignments should be worked on throughout the summer and are due **August 11.**
- 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 2023 if they achieve the score (percentage) for each section as indicated in the chart below for their course phase. Students will need to enroll in their math course for the school year with a new course id on the first day of school for any courses using mathxl/mathxlforschool so they will not have access to the summer work after school begins. Therefore, they must complete the summer work by August 11 to ensure they will not receive a zero for this quiz grade in the first quarter.
- 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. Hart at hart.loretta@stcharlescatholic.org or your future math instructor for the course you will be taking in 2023-24.
- 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
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

St. Charles Catholic High School
Summer Math Assignment Instructions
2023-2024

- Students must complete the following assignments if you are enrolled in **Advanced Math I DE/nonDE Honors** for the 2023-2024 school year.
- These assignments should be worked on throughout the summer and are due **August 11.**
- 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 2023 if they achieve the score (percentage) for each section as indicated in the chart below for their course phase (academic/honors.). Students will need to enroll in their math course for the school year with a new course id on the first day of school for any courses using mathxl/mathxlforschool so they will not have access to the summer work after school begins. Therefore, they must complete the summer work by August 11 to ensure they will not receive a zero for this quiz grade in the first quarter.
- 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 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 2023-24.
- 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

St. Charles Catholic High School
Summer Math Assignment Instructions
2023-2024

- Students must complete the following assignments if you are enrolled in **Advanced Math II/Statistics and/or Calculus** for the 2023-2024 school year.
- These assignments should be worked on throughout the summer and are due **August 11.**
- 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 2023 if they achieve the score (percentage) for each section as indicated in the chart below for their course phase (academic/honors.). Students will need to enroll in their math course for the school year with a new course id on the first day of school for any courses using mathxl/mathxlforschool so they will not have access to the summer work after school begins. Therefore, they must complete the summer work by August 11 to ensure they will not receive a zero for this quiz grade in the first quarter.
- 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 2023-24.
- 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	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

St. Charles Catholic High School
Summer Math Assignment Instructions
2023-2024

- Students must complete the following assignments if you are enrolled in **Algebra III** for the 2023-2024 school year.
- These assignments should be worked on throughout the summer and are due **August 11.**
- 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 2023 if they achieve the score (percentage) for each section as indicated in the chart below for their course phase. Students will need to enroll in their math course for the school year with a new course id on the first day of school for any courses using mathxl/mathxlforschool so they will not have access to the summer work after school begins. Therefore, they must complete the summer work by August 11 to ensure they will not receive a zero for this quiz grade in the first quarter.
- 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.
- **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 Mr. Jake Robinson at robinson.james@stcharlescatholic.org or your future math instructor for the course you will be taking in 2023-2024.
  - The following assignments can be found at www.mathxlforschool.com

Algebra III   Mathxlforschool ASSIGNMENTS:

Lesson Name	Chapter of Assignment	Description of Assignment	Academic Score
Orientation	Orientation	Orientation of how to use mathxl.	80
Summer #1 hw	Ch 2 sec 3	Solve basic and advanced linear equations and equations w/ variables on both sides	80
Summer #2 hw	Ch 2 sec 6 pt 1	Ratios and proportions	80
Summer #3 hw	Ch 2 sec 6 pt 2	Find slope of a graph	80
Summer #4 hw	Ch 3 sec 3	Find slope of a graph and the slope from 2 points. Slope-intercept form: find slope & y-int and graph an equation,	80