

KINGSTON CITY SCHOOLS Grade 8 Mathematics

SUMMER 2020 IXL Skills Review

Dear Students,

Congratulations! You've completed a very interesting school year...a first for us all. We would like to continue to support you and recommend that you take time over the summer to log into IXL and work on our 8th grade curriculum, as well as improve your knowledge base, wherever you are at this time.

IXL Skills Review

Below are recommendations for keeping skills fresh for a strong start as 9th grade Algebra students. *Please be aware that your access to IXL will end on August 15th.* For tutorials to support your understanding of any of these skills, view the videos we have selected. Our goal for sharing this information is simply to supply you with a reliable resource for accessing review, as needed. Know that by addressing any of these practice recommendations, you are doing so for your own well-being and confidence for entering Algebra. We wish you a summer filled with much needed re-connection with your family and friends and a wonderful experience as Kingston High School students. We will miss you!

Go to the Algebra I page on IXL and look for these skills

Exponents

V.1 Exponents with Integer Bases [Video https://www.youtube.com/watch?v=pKzg2N2Yyk8](https://www.youtube.com/watch?v=pKzg2N2Yyk8)

V.2 Exponents with Decimal and Fractional Bases [Video https://www.youtube.com/watch?v=MISBeV8dMDw&feature=youtu.be&end=200](https://www.youtube.com/watch?v=MISBeV8dMDw&feature=youtu.be&end=200)

V.3 Negative Exponents [Video https://www.youtube.com/watch?v=wSracfsnFI8](https://www.youtube.com/watch?v=wSracfsnFI8)

V.4 Multiplication with Exponents [Video https://www.youtube.com/watch?v=wSracfsnFI8](https://www.youtube.com/watch?v=wSracfsnFI8)

V.5 Division with Exponents [Video https://www.youtube.com/watch?v=khLTbG0VB3Q](https://www.youtube.com/watch?v=khLTbG0VB3Q)

Operations

B.1 Add, Subtract, Multiply and Divide Integers

[Video Integer Addition and Subtraction https://www.youtube.com/watch?v=BgblvF90UE](https://www.youtube.com/watch?v=BgblvF90UE)

[Video Integer Multiplication and Division https://www.youtube.com/watch?v=KtPbVPfHgk](https://www.youtube.com/watch?v=KtPbVPfHgk)

B.2 Evaluate Numerical Expressions Involving Integers [Video https://www.youtube.com/watch?v=42Su4r5UmoE](https://www.youtube.com/watch?v=42Su4r5UmoE)

B.3 Evaluate Variable Expressions Involving Integers [Video https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:foundation-algebra/x2f8bb11595b61c86:intro-variables/v/variables-and-expressions-1](https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:foundation-algebra/x2f8bb11595b61c86:intro-variables/v/variables-and-expressions-1)

B.4 Add and Subtract Rational Numbers

Video Add Rational Numbers <https://www.youtube.com/watch?v=yZYu0debFtE>

Video Subtract Rational Numbers <https://www.youtube.com/watch?v=VDmSK1W5BM8>

B.5 Multiply and Divide Rational Numbers Video <https://www.youtube.com/watch?v=sy0YSJHlvtk>

Linear Equations

G.1 Coordinate Plane Review Video <https://www.khanacademy.org/math/basic-geo/basic-geo-coord-plane/coordinate-plane-4-quad/v/the-coordinate-plane>

S.6 Slope Intercept Form: Find the Slope and y-Intercept Video <https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:forms-of-linear-equations/x2f8bb11595b61c86:intro-to-slope-intercept-form/v/less-obvious-slope-intercept-form>

S.7 Slope Intercept Form: Graph an Equation Video <https://www.youtube.com/watch?v=uk7gS3cZVp4>

S.8 Slope Intercept Form: Write an Equation from a Graph Video <https://www.youtube.com/watch?v=BC3uMIUyy6U>

S.4 Find the Slope given Two Points Video <https://www.youtube.com/watch?v=8trWFtwyUMU>

Solving Equations

J.3 Solve one-step linear equations

Video: Solve One Step by Addition and Subtraction <https://www.youtube.com/watch?v=jWpiMu5LNdg&feature=youtu.be>

Video: Solve One Step by Multiplication and Division <https://www.youtube.com/watch?v=a3acutLstF8&feature=youtu.be>

J.4 Solve two-step linear equations Video https://www.youtube.com/watch?v=p5e5mf_G3FI&feature=youtu.be

I.3 Simplify variable expressions involving like terms and the distributive property

Video: Distributive Property and Combining Like Terms <https://www.youtube.com/watch?v=4bD8DOXBOeo>

J.5 Solve advanced linear equations Video https://www.youtube.com/watch?v=ik5Zld28_o

J.6 Solve equations with variables on both sides Video <https://www.youtube.com/watch?v=1c5HY3z4k8M&feature=youtu.be>