Summer 2022

Dear Junior High students (and parents),

This summer we are excited to share that we are using a computer adaptive program called Freckle for our JH Summer Math Requirement. With Freckle, SFX students will review and practice important skills they learned this school year to ensure they don't experience "summer slide" and that in the fall they engage in math at their new grade level with proficiency and confidence.

To access Freckle:

1. USING CHROME BROWSER: Go to **student.freckle.com** and enter your class code (see below) under "Student Log In". You will then be asked to provide your first (not nickname) and last name.

2. USING AN IPAD: Download the free app - freckle.com/app. Log in using your first and last name (no nicknames) as well as the class code (see below).

- Rising 6th Grade Class Code: DW5RCF
- Rising 7th Grade Class Code: W73QHY
- Rising 8th Grade/Pre-algebra Class Code: C3YP8Z

Once you are logged in, click on the icon marked K.Valladao or S.Brecheisen to go to the dashboard and click on the backpack icon to see your assignments. Approximately half of your summer math assignment has been posted and the other half will be released on Tuesday, June 7th. We are releasing the assignments in two batches because we want to remind students that distributed practice is better for the retention of skills. ***All of the assignments are due on the first day of school, August 10th at 8:00 am. A report will be run to determine students' credit for the assignments. Additionally, students will be assessed on the skills practiced within the first two weeks of school.***

PLEASE NOTE: It is important that this practice is done independently, without any help at home. If you are having difficulty with a concept try using the Freckle resources provided (hints, videos, steps) and if you are still stuck you can try Khan Academy. Do your best to complete each assignment to mastery (80% or higher) using the additional attempts provided.

Thank you for taking the time to review this information and for working with your parents to ensure your Summer Math Requirement is met for next year. Happy Summer!

Sincerely,
SFX Junior High Math Team

Freckle Summer Math FAQ

Does it matter when I finish the work as long as it's during the summer and before school starts?
The assignments will be released in two batches - one was already released and the second will be posted on Tuesday, June 7th. We encourage you to spread out the work and not complete it all in the first days of summer because distributing the practice results in deeper learning. That said, as long as the assignments are completed by August 10th at 8 am, you will get full credit.

What should I do if I am working on an assigned skill and I don't understand it?
Freckle has built-in resources to help when you get stuck. Most skill practice has a hint available in addition to a video that explains the skill. If you use those resources and still feel stuck, search up the skill in Khan Academy and watch the video. If you are still stuck, do your best to complete the assignment and then move on to the next one.

Do I have to get a certain score on the assignments?
As we practiced in class, your goal should be mastery (80% or higher) for each assignment and if you miss the mark, we encourage you to use the help resources and then try the assignment again.

Is this assignment going to be graded?
You will receive two grades for your Summer Math Requirement. The first is for the completion of the assignments. The second is for an assessment on the assigned work that will be given in the first two weeks of school.

How do I know how many assignments I will have in total?
On the pages that follow, we have provided a list by grade level for the assignments by focus skill and standard so you can print them if you want and mark off the assignments as you complete them. After you've completed the assignments in Freckle, you will be able to choose Adaptive Practice or Fact Practice if you want to do additional practice (this is optional).

What should we do if we need assistance with Freckle during the summer?
For technical issues, please contact Renaissance/Freckle directly at 1-800-338-4204 or at support@renaissance.com.

If you have questions about the assignments, please email kathy.valladao@sfxphx.org or stephanie.brecheisen@sfxphx.org and we will try to help you. Since it is summer break, it may take us a couple of days to respond, so please be patient and we'll do our best.

SFX Summer Math Requirement Assignments

Rising 6th Grade

	STANDARD	FOCUS SKILL
1	5.OA.1 - Parentheses	Evaluate a numerical expression containing grouping symbols.
2	5.NBT.2 - Multiplying/Dividing by 10	Explain the pattern in the placement of the decimal point when multiplying or dividing decimals by powers of 10.
3	5.NBT.3A - Decimals to thousandths	Read and write a decimal through thousandths in any form.
4	5.NBT.3B - Comparing Decimals	Compare two decimals through thousandths.
5	5.NBT.5 - Multiply Multi-Digit Numbers	Fluently multiply multi-digit whole numbers.
6	5.NBT.6 - Multi-Digit Divisors	Divide a whole number of up to four digits by a 2-digit whole number using one of various strategies.
7	5.NBT.7 - Operations on Decimals	Add decimals to the hundredths using various strategies.
8	5.NBT.7 - Operations on Decimals	Subtract decimals to the hundredths using various strategies.
9	5.NBT.7 - Operations on Decimals	Multiply decimals to the hundredths using various strategies.
10	5.NBT.7 - Operations on Decimals	Divide decimals to the hundredths using various strategies.
11	5.MD.3B - Packing Unit Cubes	Understand that volume can be measured using unit cubes.
12	5.MD.5A	Find the volume of a right rectangular prism by multiplying edge lengths.
13	5.MD.5A - Volume of Right Prisms	Find the volume of a right rectangular prism to solve a problem, using a formula.
14	5.G.2 - Points in Coordinate Plane	Graph a point in the first quadrant of the coordinate plane.
15	5.NF.2 - Word Problems: Unlike Denominators	Solve problems involving addition or subtraction of fractions referring to the same whole.
16	5.NF.4A - Products & Fractions	Multiply a fraction by a fraction.
17	5.NF.4B - Fractional Rectangles	Multiply fractional side lengths of a rectangle to find its area.

18	5.NF.6 - Multiplying Mixed Fractions	Multiply fractions and mixed numbers in a given situation.
19	5.NF.7A - Dividing Unit Fractions	Divide a unit fraction by a nonzero whole number.
20	5.NF.7B - Dividing by Unit Fractions	Divide a whole number by a unit fraction.

SFX Summer Math Requirement Assignments

Rising 7th Grade

	STANDARD	FOCUS SKILL
1	6.G.1 - Polygon Areas	Determine the area of a triangle, square or rectangle to solve a problem.
2	6.G.1 - Polygon Areas	Find the area of polygons including special quadrilaterals composed of triangles and/or rectangles.
3	6.G.2 - Rectangular Prism Volume	Solve a problem using a formula to find the volume of a right rectangular prism with fractional-edge lengths.
4	6.G.4 - 3D Figures	Draw a net of a 3-dimensional object.
5	6.RP.1 - Introduction to Ratios	Describe a ratio relationship between two quantities.
6	6.RP.2 - Unit Rate Introduction	Determine a unit rate.
7	6.RP.3B - Unit Rate Problems	Solve a unit rate problem.
8	6.RP.3C - Percent Problems	Solve a problem involving parts, wholes, and percentages.
9	6.EE.1 - Intro to Exponents	Evaluate a numerical expression involving whole-number exponents.
10	6.EE.2C - Evaluate Expressions	Evaluate an expression for specific values of its variables.
11	6.EE.7 - Write & Solve Equations	Solve a problem involving an equation of the form $x + p = q$ or $px = q$ with nonnegative rational numbers.
12	6.EE.9 - Multiple Variables	Relate a graph or a table showing the relationship between two variables to an equation.
13	6.NS.1 - Division of Fractions	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions
14	6.NS.4 - GCF & LCM	Express the sum of two whole numbers in factored form using the distributive property.
15	6.NS.6A - Opposite Signs of Numbers	Recognize that opposite numbers are located on opposite sides of zero on a number line.
16	6.NS.6B - Ordered Pairs in the Coordinate Plane	Understand signs of numbers in ordered pairs as indicating locations in the quadrants of the coordinate plane.
17	6.SP.2 - Data Distribution & Shape	Understand a statistical distribution by its center, spread, and overall shape.
18	6.SP.4 - Visual Data Sets	Display numerical data in dot plots, histograms, and box plots.
19	6.SP.5A - Number of Observations	Report the number of observations in a data set.

20	6.SP.5B - Methods of Data Collection	Use contextual information to describe a measurable attribute.
21	6.SP.5C - Center & Variability of Data Sets	Describe a data set using measures of center.
22	6.SP.5C - Center & Variability of Data Sets	Describe a data set using measures of variability
23	6.SP.5C - Center & Variability of Data Sets	Describe overall patterns and deviations within a data set.
24	6.SP.5D - Best Measure of Center & Variability	Relate the choice of a measure of center or variability to the shape of a data distribution.

SFX Summer Math Requirement Assignments

Rising 8th Grade (8th Pre-Algebra Class*)

	STANDARD	FOCUS SKILL
1	7.G.3 - Slices of 3D Figures	Determine the 2-dimensional figure that results from slicing a 3-dimensional shape.
2	7.G.4 - Circle Properties	Solve a problem involving the area or circumference of a circle using the appropriate formula.
3	7.G.5 - Angle Equations	Determine the measure of an unknown angle in a geometric figure.
4	7.G.6 - Composite Figures	Solve a problem involving the surface area or volume of a 3-dimensional object composed of cubes and/or right prisms.
5	7.RP.1 - Unit Rates & Fractions	Compute the unit rate associated with a ratio of fractions.
6	7.RP.2A - Proportional Relationships	Determine if the variables in a situation are in a proportional or linear non-proportional relationship given a table, a graph, or an equation.
7	7.RP.2B - Constant of Proportionality	Identify the constant of proportionality.
8	7.RP.2D - Graphing Proportional Relationships	Interpret the meaning of an ordered pair on a graph that shows a proportional relationship in a given situation.
9	7.EE.1 - Simplify Linear Expressions	Add or subtract to simplify a linear expression with rational coefficients.
10	7.EE.2 - Rewriting Expressions in Different Forms	Understand that different forms of an expression can show how its various quantities are related.
11	7.EE.4A - Equations in Form $px + q = r$	Fluently solve equations of the form $px + q = r$ or $p(x + q) = r$.
12	7.EE.4B - Inequalities in Form $px + q > r$	Graph the solution set of an inequality involving rational numbers.
13	7.NS.1C - Subtraction on a Number Line	Understand subtraction of rational numbers as adding the additive inverse.
14	7.NS.1D - Apply Properties to Add & Subtract	Add integers.
15	7.NS.1D - Apply Properties to Add & Subtract	Subtract integers.
16	7.NS.1D - Apply Properties to Add & Subtract	Add rational numbers.
17	7.NS.1D - Apply Properties to Add & Subtract	Subtract rational numbers.
18	7.NS.2B - Division of Signed Numbers	Divide integers.
19	7.NS.2C - Apply Properties to Multiply & Divide	Multiply rational numbers.

20	7.NS.2C - Apply Properties to Multiply & Divide	Divide rational numbers.
21	7.NS.2D - Convert Rational Numbers to Decimals	Convert between rational numbers in any form.
22	7.NS.3 - Solve Real-World Problems	Solve a real-world problem with rational numbers involving any of the four operations.
23	7.SP.2 - Using Random Samples	Use data from a random sample to draw inferences about a population.
24	7.SP.4 - Comparing Data Sets	Make comparative inferences about two populations using measures of center and measures of variability from random samples.
25	7.SP.6 - Probability of Chance Events	Predict the approximate relative frequency of a chance event given its probability.
26	7.SP.8A - Probability of Compound Events	Understand that the probability of a compound event is the fraction of the outcomes in the sample space for which the compound event occurs.