



## Math Summer Learning Resources

Seattle Public Schools is committed to making its online information accessible and usable to all people, regardless of ability or technology. Meeting web accessibility guidelines and standards is an ongoing process that we are consistently working to improve.

While Seattle Public Schools endeavors to only post documents optimized for accessibility, due to the nature and complexity of some documents, an accessible version of the document may not be available. In these limited circumstances, the district will provide equally effective alternate access.

For questions and more information about this document, please contact the following:

Jackie Lloyd-Evans  
Project Manager, Continuous Improvement  
Highly Capable Services  
[jglloyddevans@seattleschools.org](mailto:jglloyddevans@seattleschools.org)

The Math Summer Learning Resources are for incoming HC identified students who want to bridge their math skills. As a newly identified HC student, your child will work two levels above grade level. For example, a student who has completed second grade and starts as a third-grade student will study fifth grade math.

## Grade 3 Summer Math Guide

### ❖ How to use these Summer Math Learning Resources

These optional resources provide practice with key math concepts for next year. Please support your child as they use these math resources. Your child does not need to complete every question. Choose the activities that are most helpful for your child.

### ❖ Preparing for Math 5 in 3rd Grade

To support a strong and confident start in math, it's helpful if students are comfortable with the following:

- Multiplication facts 1-12 and corresponding division facts
- Understand place value up to 1,000,000,000
- Addition and subtraction up to 4 digits with regrouping and borrowing.
- Adding and subtracting decimals to two places (practice with money)
- Multiplication up to 2 by 2 digit.
- Find equivalent fractions and order fractions

### ❖ Suggested Schedule:

Do what works best for your family. While the printable packet and interactive websites do provide some feedback, having an adult there to further explain will help a lot!

#### Sample 15 min. Schedule:

5 min – warm up with a game\* or watch a video about a math concept or math skill

10 min – interactive website or packet work **OR** play a game for 15 minutes\*

*\*Third grade is the year that students traditionally study multiplication tables and fluency is essential for 5<sup>th</sup> grade math. If your student does not yet recall multiplication and division facts with fluency (10 – 15 second recall), please have them review their facts daily. The online resource *Multiplication by Heart* has an excellent approach. See link under *Interactive Websites* for details.*

### ❖ Resources:

**Videos:** These short videos (~ 5min.) help students “warm up” to math work.

**Games:** These are interactive games accessible online.

**Interactive Websites:** Khan Academy, Multiplication by Heart, and Polypad related to each topic.

**enVision website:** enVision math website provides home activities for families.

Grade 4 [https://media.pk12ls.com/curriculum/math/family\\_engage\\_cc/g04\\_welcome\\_en.html](https://media.pk12ls.com/curriculum/math/family_engage_cc/g04_welcome_en.html)

Grade 3 [https://media.pk12ls.com/curriculum/math/family\\_engage\\_cc/g03\\_welcome\\_en.html](https://media.pk12ls.com/curriculum/math/family_engage_cc/g03_welcome_en.html)

**Math Tool Kit:** Quick reference sheets students could use in the summer and during the school year.

## Multiplication & Division 1-12 facts

Videos	Games	Interactive Websites
<a href="#"><u>2 Facts: Double!</u></a>	<a href="#"><u>Blockout</u></a>	<a href="#"><u>3rd Grade Math Tool Kit</u></a>
<a href="#"><u>4 Facts</u></a>	<a href="#"><u>The Multiplication Zombies of the Brittany Graveyard</u></a>	<a href="#"><u>Multiplication by Heart Flashcards</u></a>
<a href="#"><u>5 Facts</u></a>	<a href="#"><u>Factor Family Reunion</u></a>	<b>enVision:</b>
<a href="#"><u>8 Facts</u></a>	<a href="#"><u>Prime Climb</u></a> is a board game for ages 10+ (or 8+ with adult guidance) to explore mathematical structure in multiplication, division, and prime numbers in a fast-paced, dynamic game of strategy and luck.	<a href="#"><u>Grade 3</u></a>
<a href="#"><u>10 Facts</u></a>		<a href="#"><u>Grade 4</u></a>
<a href="#"><u>3 Facts (Fun!)</u></a>		<b>Khan Academy:</b>
<a href="#"><u>6 Facts</u></a>		<a href="#"><u>Basic Multiplication</u></a>
<a href="#"><u>6 Facts (Song!)</u></a>		<a href="#"><u>Multiplication Tables for 2 - 9</u></a>
<a href="#"><u>7 Facts</u></a>		<a href="#"><u>Multiplication for 10, 11, &amp; 12</u></a>
<a href="#"><u>7 Skip Count</u></a>		<a href="#"><u>Basic Multiplication</u></a>
<a href="#"><u>9 Facts</u></a>		<a href="#"><u>Multiplication Tables for 2 - 9</u></a>
<a href="#"><u>Multiplication Facts Review</u></a>		<a href="#"><u>Multiplication for 10, 11, &amp; 12</u></a>
		<a href="#"><u>Get Ready For Division</u></a>

## Place Value Up to 1,000,000

Videos	Games	Interactive Websites
<a href="#"><u>Finding Value of a Digit Up to 100,000</u></a> <a href="#"><u>Place Value Up to 1,000,000 (Hundred Thousands)</u></a> <a href="#"><u>Place Value to Millions</u></a> <a href="#"><u>Place Value: Reading and Writing Large Whole Numbers</u></a> <a href="#"><u>Place Value to the Billions</u></a>	<a href="#"><u>Blue Raspberry Rescue</u></a> <a href="#"><u>Place Value Millionaire</u></a>	<a href="#"><u>3rd Grade Math Tool Kit</u></a> <a href="#"><u>Multiplication by Heart Flashcards</u></a> <a href="#"><u>Learning About Polypad: A 10-Minute Tour</u></a> <b>enVision:</b> <a href="#"><u>Grade 3</u></a> <a href="#"><u>Grade 4</u></a> <b>Khan Academy:</b> <a href="#"><u>Ways to Write Whole Numbers (Words and Expanded Form)</u></a> <a href="#"><u>Rounding to Nearest 10</u></a> <a href="#"><u>Rounding to Nearest 100</u></a>

## Multiplication of 1-Digit by 2-Digit Numbers

Videos	Games	Interactive Websites
<p><a href="#"><u>Long Multiplication Song</u></a></p> <p><a href="#"><u>Area Model Multiplication</u></a></p> <p><a href="#"><u>Multiplying 2-Digit by One-Digit Number</u></a></p>	<p><a href="#"><u>Blockout</u></a></p> <p><a href="#"><u>The Legend of Multiplicio</u></a></p> <p><a href="#"><u>Goat Busters</u></a> (Area Model)</p> <p><a href="#"><u>Prime Climb</u></a></p>	<p><a href="#"><u>3rd Grade Math Tool Kit</u></a></p> <p><a href="#"><u>Multiplication by Heart Flashcards</u></a></p> <p><a href="#"><u>Learning About Polypad: A 10-Minute Tour</u></a></p> <p><b>enVision:</b></p> <p><a href="#"><u>Grade 4</u></a></p> <p><b>Khan Academy:</b></p> <p><a href="#"><u>Multiplying 2-Digit by 1-Digit</u></a></p>

## Adding Multidigit Numbers With Regrouping

Videos	Games	Interactive Websites
<a href="#"><u>2 Digit Addition With Regrouping</u></a> <a href="#"><u>Addition with Regrouping</u></a> <a href="#"><u>Adding 3-Digit Numbers With Regrouping</u></a> <a href="#"><u>Adding Multidigit Numbers With Regrouping</u></a>	<a href="#"><u>Don't Break the Bank</u></a> <a href="#"><u>Prime Climb</u></a> <a href="#"><u>Adding with Regrouping</u></a>	<a href="#"><u>3rd Grade Math Tool Kit</u></a> <a href="#"><u>Multiplication by Heart Flashcards</u></a> <a href="#"><u>Learning About Polypad: A 10-Minute Tour</u></a> <b>enVision:</b> <a href="#"><u>Grade 3</u></a> <a href="#"><u>Grade 4</u></a> <b>Kahn Academy:</b> <a href="#"><u>Strategies for Adding Two and Three Digit Numbers</u></a> <a href="#"><u>Adding with Regrouping</u></a>

## Subtracting Multidigit Numbers With Regrouping

Videos	Games	Interactive Websites
<a href="#"><u>Subtracting With Regrouping</u></a>	<a href="#"><u>Prime Climb</u></a>	<a href="#"><u>3rd Grade Math Tool Kit</u></a>
<a href="#"><u>Subtracting With All Regroupings</u></a>	<a href="#"><u>Subtracting with Regrouping</u></a>	<a href="#"><u>Multiplication by Heart Flashcards</u></a>
<a href="#"><u>Subtracting Across the Zeros</u></a>		<a href="#"><u>Learning About Polypad: A 10-Minute Tour</u></a>
		<b>enVision:</b>
		<a href="#"><u>Grade 3</u></a>
		<a href="#"><u>Grade 4</u></a>
		<b>Khan Academy:</b>
		<a href="#"><u>Strategies for Subtracting Two and Three Digit Numbers</u></a>
		<a href="#"><u>Subtracting with Regrouping</u></a>

## Adding and Subtracting Decimal Numbers (Hundredths Place)

Videos	Games	Interactive Websites
<p><a href="#"><u>Adding and Subtracting Decimals Song</u></a></p> <p><a href="#"><u>Adding and Subtracting Decimals</u></a></p> <p><a href="#"><u>Addition and Subtraction of Decimals</u></a></p> <p><a href="#"><u>Subtracting Decimals</u></a></p>	<p><a href="#"><u>Hotel Decimalfornia</u></a></p> <p><a href="#"><u>Lunch Lady</u></a></p>	<p>3rd Grade Math Tool Kit</p> <p>Multiplication by Heart Flashcards</p> <p>Learning About Polypad: A 10-Minute Tour</p> <p><b>enVision:</b></p> <p><a href="#"><u>Grade 4</u></a></p> <p><b>Khan Academy:</b></p> <p><a href="#"><u>Understanding Decimals</u></a></p> <p><a href="#"><u>Decimal Place Value with Regrouping</u></a></p> <p><a href="#"><u>Adding Decimals (tenths)</u></a></p> <p><a href="#"><u>Adding Decimals (hundredths)</u></a></p> <p><a href="#"><u>Subtract Decimals (tenths and hundredths)</u></a></p>

## Multiplying a 2-Digit by 2-Digit Number

Videos	Games	Interactive Websites
<a href="#"><u>Multiplying 2-Digit by 1-Digit Number</u></a> <a href="#"><u>Multiplying: 2 Digits Times 1-Digit (With Carrying)</u></a> <a href="#"><u>Area Model Multiplication</u></a>	<a href="#"><u>The Multiplication Zombies of the Brittany Graveyard</u></a> <a href="#"><u>The Legend of Multiplico</u></a>	<a href="#"><u>3rd Grade Math Tool Kit</u></a> <a href="#"><u>Multiplication by Heart Flashcards</u></a> <a href="#"><u>Learning About Polypad: A 10-Minute Tour</u></a> <b>enVision:</b> <a href="#"><u>Grade 4</u></a> <b>Kahn Academy:</b> <a href="#"><u>Multiply by 2-Digit Numbers</u></a>

## Ordering Fractions and Finding Equivalent Fractions

Videos	Games	Interactive Websites
<a href="#"><u>Comparing and ordering fractions</u></a> <a href="#"><u>Comparing and ordering fractions with number strips</u></a> <a href="#"><u>Equivalent Fractions</u></a> <a href="#"><u>Modeling Equivalent Fractions</u></a> <a href="#"><u>Equivalent Fractions</u></a> <a href="#"><u>Equivalent Fractions Song</u></a>	<a href="#"><u>Tony Fraction's Pizza Shop</u></a> <a href="#"><u>The Legend of the Golden Pizza</u></a> <a href="#"><u>Fraction Dolphins</u></a> <a href="#"><u>Dirt Bike Comparing Fractions</u></a>	<a href="#"><u>3rd Grade Math Tool Kit</u></a> <a href="#"><u>Multiplication by Heart Flashcards</u></a> <a href="#"><u>Learning About Polypad: A 10-Minute Tour</u></a> <b>enVision:</b> <a href="#"><u>Grade 4</u></a> <b>Khan Academy:</b> <a href="#"><u>Equivalent Fractions and Comparing Fractions (3<sup>rd</sup> Grade)</u></a> <a href="#"><u>Equivalent Fractions and Comparing Fractions (4<sup>th</sup> Grade)</u></a>