



## Math Summer Learning Resources

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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 first grade and starts as a second-grade student will study fourth grade math.

## Grade 2 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 4 in 2nd Grade

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

- Addition and subtraction facts up to 20
- Understanding of the concept of Multiplication/ Division
- Adding/subtracting multi-digit numbers (up to 2 digits)
- Strong understand place value up to 1,000
- Fraction basics (name, represent, compare different fractions both greater than and less than 1)
- Estimating and rounding whole numbers

### ❖ 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 nteractive 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 2 [https://media.pk12ls.com/curriculum/math/family\\_engage\\_cc/g02\\_welcome\\_en.html](https://media.pk12ls.com/curriculum/math/family_engage_cc/g02_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 2, 3, 4, 5, & 10 Facts

Videos	Games	Interactive Websites
<a href="#"><u>Multiply by Two Song</u></a> <a href="#"><u>Three Times Table Song</u></a> <a href="#"><u>Skip Counting by Four Rap Song</u></a> <a href="#"><u>Skip Counting by Five Song</u></a> <a href="#"><u>Skip Count by Ten Song</u></a>	<a href="#"><u>Blockout</u></a> <a href="#"><u>Multiplication Games</u></a> <a href="#"><u>The Legend of Multiplicio</u></a> <a href="#"><u>Crossing Math Canyon</u></a>	<a href="#"><u>Multiplication by Heart Flashcards</u></a> <b>enVision:</b> <a href="#"><u>Grade 3</u></a> <a href="#"><u>Grade 2</u></a> <b>Khan Academy:</b> <a href="#"><u>Get Ready for Multiplication</u></a> <a href="#"><u>Basic Multiplication</u></a> <a href="#"><u>Multiplication Tables for 2 - 9</u></a> <a href="#"><u>Relating Division to Multiplication</u></a>

## Multiplication 6, 7, 8, & 9 Facts

Videos	Games	Interactive Websites
<p><a href="#"><u>Six Times Table Song</u></a></p> <p><a href="#"><u>Eight Times Table Song</u></a></p> <p><a href="#"><u>Multiplying by Nines Strategy</u></a></p>	<p><a href="#"><u>Blockout</u></a></p> <p><a href="#"><u>Multiplication Games</u></a></p> <p><a href="#"><u>The Legend of Multiplico</u></a></p> <p><a href="#"><u>Crossing Math Canyon</u></a></p>	<p><a href="#"><u>Multiplication by Heart Flashcards</u></a></p> <p><b>enVision:</b> <a href="#"><u>Grade 3</u></a></p> <p><b>Khan Academy:</b> <a href="#"><u>Basic Multiplication</u></a></p> <p><a href="#"><u>Multiplication Tables for 2 - 9</u></a></p> <p><a href="#"><u>Multiplication for 10, 11, &amp; 12</u></a></p>

## Place Value up to 1,000,000 and Estimating & Rounding

Videos	Games	Interactive Website
<a href="#"><u>Finding Value of a Digit up to 1,000,000</u></a> <a href="#"><u>Place Value up to 1,000,000 (Hundred Thousands)</u></a> <a href="#"><u>Rounding Numbers to 100</u></a> <a href="#"><u>Rounding Numbers Song</u></a> <a href="#"><u>Rounding Numbers to the Nearest 10, 100, and 1000</u></a>	<a href="#"><u>Blue Raspberry Rescue</u></a> <a href="#"><u>Fun Place Value Block Games</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 2</u></a> <a href="#"><u>Grade 3</u></a>  <b>Khan Academy:</b> <a href="#"><u>Write Whole Numbers (Words, Expanded)</u></a> <a href="#"><u>Rounding to Nearest 10</u></a> <a href="#"><u>Rounding to Nearest 100</u></a>

## Adding Multidigit Numbers with Regrouping

Videos	Games	Interactive Website
<a href="#"><u>2 Digit Addition with Regrouping</u></a> <a href="#"><u>Addition with Regrouping Song</u></a> <a href="#"><u>Adding 3-Digit Numbers with Regrouping</u></a> <a href="#"><u>Multidigit Addition</u></a>	<a href="#"><u>Don't Break the Bank</u></a> <a href="#"><u>Metamorphosis</u></a> <a href="#"><u>Will and His Happy Hamsters</u></a> <a href="#"><u>Awful Waffles</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 2</u></a> <a href="#"><u>Grade 3</u></a> <b>Khan 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

Video	Games	Interactive Website
<p><a href="#"><u>Subtraction with Regrouping Song</u></a></p> <p><a href="#"><u>3-Digit Subtraction with Regrouping</u></a></p> <p><a href="#"><u>Multidigit Subtraction</u></a></p> <p><a href="#"><u>Subtracting Multidigit Numbers</u></a></p> <p><a href="#"><u>Subtracting Multidigit Numbers</u></a></p>	<p><a href="#"><u>Metamorphosis</u></a></p> <p><a href="#"><u>Will and His Happy Hamsters</u></a></p> <p><a href="#"><u>Awful Waffles</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 2</u></a></p> <p><a href="#"><u>Grade 3</u></a></p> <p><b>Khan Academy:</b></p> <p><a href="#"><u>Strategies for Subtracting Two and Three Digit Numbers</u></a></p> <p><a href="#"><u>Subtracting with Regrouping</u></a></p>

## Review Multiplication Facts 0 - 10

Video	Games	Interactive Websites
<p><a href="#"><u>Seven Times Table Song</u></a></p> <p><a href="#"><u>Eight Times Table Song</u></a></p> <p><a href="#"><u>Equal Groups Multiplication Song</u></a></p> <p><a href="#"><u>Multiplication Facts Review</u></a></p>	<p><a href="#"><u>Blockout</u></a></p> <p><a href="#"><u>Multiplication Games</u></a></p> <p><a href="#"><u>The Legend of Multiplico</u></a></p> <p><a href="#"><u>Crossing Math Canyon</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 2</u></a></p> <p><a href="#"><u>Grade 3</u></a></p> <p><b>Khan Academy:</b></p> <p><a href="#"><u>Basic Multiplication</u></a></p> <p><a href="#"><u>Multiplication Tables for 2 - 9</u></a></p> <p><a href="#"><u>Multiplication for 10, 11, &amp; 12</u></a></p>

## Review Adding and Subtracting Multidigit Numbers with Regrouping

Videos	Games	Interactive Websites
<a href="#"><u>Addition with Regrouping</u></a> <a href="#"><u>Adding 3-Digit Numbers with Regrouping</u></a> <a href="#"><u>Subtraction with Regrouping Song</u></a> <a href="#"><u>3-Digit Subtraction with Regrouping</u></a> <a href="#"><u>Math-Antics: Multidigit Subtraction</u></a>	<a href="#"><u>Don't Break the Bank</u></a> <a href="#"><u>Adding with Regrouping</u></a> Subtracting with Regrouping	<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> <b>Khan Academy:</b> <a href="#"><u>Add and Subtract within 1,000</u></a>

## Fraction Basics

Video	Games	Interactive Websites
<p><a href="#"><u>Fractions are Parts</u></a></p> <p><a href="#"><u>Fractions Song</u></a></p> <p><a href="#"><u>Fractions on a Numberline</u></a></p> <p><a href="#"><u>Fraction Basics</u></a></p> <p><a href="#"><u>Fractions!</u></a></p>	<p><a href="#"><u>Fruity Fractions</u></a></p> <p><a href="#"><u>Firepit Fractions</u></a></p> <p><a href="#"><u>Kid Heroes Fractions</u></a> (x-out of the initial screen... you can still play without setting anything up)</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 3</u></a></p> <p><b>Khan Academy:</b></p> <p><a href="#"><u>Understand Fractions</u></a></p> <p><a href="#"><u>Equivalent Fractions and Comparing Fractions</u></a></p>