



Math Summer Learning Packet

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The Math Summer Prep is for incoming Cascadia students or current students who want to bridge or maintain their math skills. At Cascadia, students are working two levels above grade level. For example, a student who has completed first grade and starts as a second-grade student at Cascadia will study fourth grade math. It provides a variety of printable materials, web based materials, and math skill building games.

Incoming First Grade Math Summer Learning

What incoming 1st grade Cascadia math students should know:

- Add and subtract fluently with sums up to 20
- Add two-digit numbers using strategies based on place value
- Understand place value up to 1,000
- Read and write numbers to 1,000 using base-ten numerals, number names, and expanded form
- Count within 1,000
- Skip count by 2s, 5s, 10s, and 100s
- work with time: read, write, & tell
- work with money: what value pieces of currency have

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 30 min. Schedule:

- 5 min. -- warm up with a game
- 5 min. -- watch a video to refine a skill
- 15 min. -- interactive website or packet work
- 5 min. -- use new skills to replay game

Sample 15 min. Schedule:

- 5 min – warm up with a game or watch a video to refine a skill
 - 10 min – interactive website or packet work
- OR**
- Play a game for 15 minutes

Resources:

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

Games: To print out, obtain at a store, or access online. The Envision math curriculum has online games which are included here.

Interactive Websites: Links to iXL & Kahn Academy as well as Mathigon. Kahn Academy has a wonderful “Get Ready Series” for summer. Links are related to topics for that week. Use what appeals to your student – different websites have different approaches.

Printable Packet: Focused practice on the weekly topic to print and complete at home. The Envision math curriculum provides at home activities for families which are included here. Parent help is essential to help students complete the worksheets. **Complete as much as needed to feel confident in the topic.**

Math Tool Kit: A set of quick reference sheets students could use in the summer and during the school year.

Week 1: Adding and Subtracting with numbers up to 20

Videos –	Games (*online)	Interactive Websites	Printable Packet
Adding by Counting on (with 1 – 20 counting warm up) Subtracting by Counting Back (with 1 – 20 counting warm up) Addition up to 20 with Counting Number bonds of 20 Fact Families of 20	<p>Physical Games:</p> <p>Sleeping Queens</p> <p>Tiny Polka Dot (how to play video links):</p> <ul style="list-style-type: none"> - Supreme 15 - Thirty-One - Go Fish 15 (or 20) - 21 or Bust <p>Regular Deck of Cards (can adapt from above videos – J = 10; Q = 11, K = 12 or similar):</p> <ul style="list-style-type: none"> - Supreme 15 - Thirty – One - Go Fish 15 (or 20) - 21 or Bust <p>Number Run: all operations through 10 (app available through Apple App store & Google Play)</p> <p>Leap Frog (printable Game)</p>	<p>iXL</p> <p>addition sentences using number lines</p> <p>add using doubles plus one</p> <p>addition facts – sums up to 20</p> <p>subtraction sentences using number lines</p> <p>Subtraction facts - up to 20</p> <p>Make a number using subtraction</p> <p>Kahn Academy</p> <p>Addition and Subtraction within 1 - 20</p> <p>(Going into 3rd Grade)</p> <p>Addition and Subtraction</p>	<p>Week 1 Printable Packet</p> <hr/> <p>Math Tool Kit</p> <hr/> <p>1st Grade Math Tool Kit</p>

Week 2: Place Value (ones, tens, hundreds)

Videos	Games	Interactive Website	Printable Packet
<p>What is place value?</p> <p>Place value grouping (with bundling)</p> <p>Place Value with the Number One</p> <p>Place Value 1s, 10s, 100s song</p>	<p>Triple Digit Dare (printable game – see Polypad Website Guide for online game pieces)</p> <p>Base 10 Bingo (ABCYA)</p>	<p>IXL Convert between tens and ones -- multiples of ten</p> <p>Write numbers as tens and ones up to 20</p> <p>Counting tens and ones – up to 99</p> <p>Place value models up to 100</p> <p>Place Value Tens and Ones</p> <p>Kahn Academy Place Value (tens and Hundreds)</p>	<p>Week 2 Printable Packet</p> <hr/> <p>Math Tool Kit</p> <hr/> <p>1st Grade Math Tool Kit</p>

Week 3: Adding two-digit numbers

Videos	Games	Interactive Websites	Printable Packet
<p>Add 2-digit numbers using place value</p> <p>Adding 2-Digit Numbers Using Base 10 blocks without regrouping</p> <p>Use Place Value to Add (base 10 blocks & words)</p> <p>Double digit addition with regrouping</p>	<p>Envision Game: Flying Cow Incident (log into SPS student account: has subtracting but also a great way to accommodate student learning)</p> <p>Hoppers & Rush Hour Jr.: physical game that helps students develop multi-step problem solving skills</p> <p>Smart Games has many physical, classic logic games that also help with multi-step problem solving. Try online here.</p> <p>Number Run: all operations through 10 (app available through Apple App store & Google Play)</p>	<p>iXL Using models to add two-digit numbers with regrouping</p> <p>Add two-digit numbers with regrouping – sums to 100</p> <p>Add two-digit numbers – sums to 200</p> <p>Complete the addition sentence – up to two digits</p> <p>Kahn Academy Addition and Subtraction within 100</p>	<p>Week 3 Printable Packet</p>
			Math Tool Kit
			1st Grade Math Tool Kit

Week 4: Place value up to 1,000 and counting within 1,000

Videos	Games	Interactive Website	Printable Packet
<p>Counting to 1,000 (candy!) Counting to 1,000 (straws!)</p> <p>Place Value to 1,000 (Brain Pop)</p> <p>Place Value to 1,000 with tens blocks</p> <p>Place Value Ones Tens Hundreds Thousands</p>	<p>Envision Game: Globbing Globbs (log into student SPS account)</p>	<p>IXL Count forward – up to 1,000</p> <p>Number lines – up to 1,000</p> <p>Identify a digit up to the hundreds place</p> <p>Place value models up to hundreds</p> <p>Place value models up to hundreds</p> <p>Kahn Academy Intro to place value</p>	<p>Week 4 Printable Packet</p> <hr/> <p>Math Tool Kit</p> <hr/> <p>1st Grade Math Tool Kit</p>

Week 5: Place value using base ten-numerals, number names, and expanded form

Videos	Games	Interactive Websites	Printable Packet
<p>Number Name & Base 10 numerals</p> <p>Number Names Game (Freeze Dance)</p> <p>Expanded form within 1000 (arrow cards)</p> <p>Expanded form (3 digits)</p> <p>Comparing three-digit numbers</p>	<p>Base 10 Bingo (ABCYA)</p> <p>Hoppers & Rush Hour Jr.: physical game that helps students develop multi-step problem solving skills</p> <p>Smart Games has many physical, classic logic games that also help with multi-step problem solving. Try online here.</p>	<p>iXL</p> <p>Writing numbers up to 100 in words – convert digits to words</p> <p>Writing numbers up to 100 in words – convert words to digits</p> <p>Writing numbers up to 1,000 in words – convert words to digits</p> <p>Writing numbers up to 1,000 in words – convert digits to words</p> <p>Convert from expanded form – up to hundreds</p> <p>Kahn Academy</p> <p>Numbers in standard, word, and expanded form</p>	<p>Week 5 Printable Packet</p> <hr/> <p>Math Tool Kit</p> <hr/> <p>1st Grade Math Tool Kit</p>

Week 6: Skip counting by 2s, 5s, 10s, and 100s

Videos	Games	Interactive Website	Printable Packet
Counting by 2s song Skip counting by 5s Count by 10s Skip counting by 100 song	Number Run: all operations through 10 (<i>app available through Apple App store & Google Play</i>) Space Jump: Envision Game (<i>log into SPS student account</i>)	IXL Skip counting by twos Skip counting by fives Skip counting by tens Count forwards and backward by fives and tens Count forward and backward by fives, tens, and hundreds Counting forward and backward by 2s, 5s, 10s, & 100s Kahn Academy Addition and Subtraction within 1000 (skip counting by 100s)	Week 6 Printable Packet Math Tool Kit 1st Grade Math Tool Kit

Week 7: Counting money

Videos	Games	Interactive Websites	Printable Packet
Coins Coins and skip counting Coins & Dollars Learning Money for children (pt. 1) Learning Money for children (pt. 2)	Counting Money Money Bingo (ABCYA) Dolphin Dash (ABCYA)	IXL Count money – pennies, nickels, and dimes only Count money – up to \$1 Count money up to \$5 Purchases: do you have enough money? Equivalent amounts of money up to \$1 Kahn Academy Money and Time	Week 7 Printable Packet Math Tool Kit 1st Grade Math Tool Kit

Week 8: Telling time

Videos	Games	Interactive Website	Printable Packet
Clock parts and time to half hour Hour and half hour Time to 5 min Telling time (AM & PM) Telling Time (learning the clock) Series on telling time	Time Travel (ABCYA)	IXL Match analog clocks and times Match analog and digital clocks Read clocks and write times A.M. or P.M. Match analog clocks and times Match analog and digital clocks Read clocks and write times: hour and half hour Read clocks and write times Time words: o'clock, half, quarter A.M. or P.M. Compare clocks Elapsed time I Kahn Academy Money and Time (Going into 3rd Grade) Telling Time	Week 8 Printable Packet Math Tool Kit 1st Grade Math Tool Kit