



K-5 Digital Resources for Mathematics

The purpose of this document is to provide an overview of digital resources available to students in SCPS. These tools can be used by teachers and families to support learning at home. The linked digital resources provide students opportunities to practice essential mathematics content, communication, and thinking skills. These items are optional.

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Math Practice

1. [Origo at Home](#) - The authors of our primary curriculum resource, Origo Stepping stones, has created weekly, digital content plans for home use. The weekly plans contain activities for each day, along with digitally accessible or downloadable resources.

Also explore: [Parent Portal](#) [Origo Insights](#) [Free Resources](#)

2. [Youcubed at Home](#) - Stanford University Professor, Jo Boaller, created this website as a way of sharing activities that both engage students in mathematical thinking and build a positive mindset about mathematics. Other areas of the site to explore - Week Inspirational Math
3. [Khan Academy/ Khan Academy Kids](#) - Khan Academy has a library of standards-aligned lessons that offer exercises, quizzes, and tests so students can practice and master skills, as well as instructional videos to help students learn or review material. Khan Academy is available in 40+ languages. Students without laptops can access the Khan Academy website or use the Khan Academy app on smartphones. [Description of Khan Resources](#) by grade level with links and potential schedules
4. [GemStones](#) - A Mathematics YouTube Channel. Join Gemma Burnett as she inspires a love of learning math with understanding! In her fun and engaging videos, Gemma uses everyday hands-on resources to teach young, inquisitive minds about key mathematics ideas involving number, operations, and geometry. These are ideal for use in your K-6 classroom and for helping your young learners at home! Free Resources and Printables available in the description of the videos.
5. [Parent Guide to Making Math Fun](#) - From Scholastic, a trusted name in education, this collection of activities and games is sure to provide plenty of mathematically -rich, family fun this summer.
6. [Mathematics Vocabulary Cards](#) - Math Vocabulary Cards help students deepen their conceptual understanding of key terms in mathematics. Each card features three sections: a

math term, a representative example or model, and a concise definition. Settings can be adjusted for K-2 or 3-5 terms, narrowing as well as English or Spanish.

Math Games

1. [Dreambox](#) - students login through Clever by clicking the *Dreambox* icon; Students access activities adjusted to their individual level and needs. The “lessons” in Dreambox include working with mathematical representations to build concepts, exploration of strategies for computational fluency, and developing deep understanding of the relationships between numbers.

Parent Video

En Espanol

2. [Greg Tang](#) - A variety of free games to build number understanding and computational fluency. Games get progressive through levels that are more complex or encourage quicker thinking.

K -1	2-3	4-5
How much? How Many? Ten Frame Mania Coin Bubble NumTanga Missing: Addition NumSkill (<i>Easy</i>) Break apart (<i>Addition and Subtraction, Doubles and Make 10</i>)	Math Limbo Kakooma Coin Bubble (<i>start at level 2 or higher</i>) Missing: - Addition and Subtraction (<i>2nd</i>) - All 4 Operations (<i>3rd</i>) NumSkill (<i>Hard</i>) Satisfraction (<i>Identify, Compare, Calculate: easy</i>) Place Value (<i>whole numbers</i>) Break Apart (<i>Addition, subtraction, Multiplication - all strategies</i>)	Kakooma Math Limbo SatisFraction Place Value Break Apart Espresso (<i>5th</i>)

3. [NumFu](#) -These Fact Fluency apps engage students in essential practice for addition, subtraction, multiplication, and division. Only available for iOS (Apple products).

Math Conversation Starters

One of the most powerful, but simple, activities for building mathematical thinking is to have conversations where families use reasoning to answer a question and justify their thinking. The following websites contain collections of images that provide intriguing mathematical situations to engage in reasoning and communication. These simple tasks encourage mathematical communication and language, critical thinking (identifying similarities and differences, decision making, reasoning, analysis, etc), and creative problem solving.

1. [Same but different](#) - What similarities do you notice? How are the images different? This website can be used for teaching a way of thinking. Noticing similarities and differences is the basis of analytical thinking which
2. [Which one doesn't belong?](#) - This website is dedicated to providing thought-provoking puzzles for math teachers and students alike. There are no answers provided as there are many

different, correct ways of choosing which one doesn't belong; but you should always explain the reason for the answer you chose. Enjoy!

3. [Would you rather?](#) This website contains sets of simple images which ask which of 2 scenarios you would prefer. *Whichever option you choose, justify your reasoning with mathematics*

[Would you rather for K -2](#)

[Would you rather for 3-5](#)

4. [How many do you see?](#) - The collection in this website encourages students to figure out how many items they see -- without counting.

Problem Solving

1. [Thinking Blocks](#) - Representing problems with visual models is an important part of building reasoning. In this site students model and solve problems using tape diagrams. The site includes videos on how to use tape diagrams to model problems.
2. [Word Problem Generator](#) - Randomly create word problems that fit the conditions you choose (numbers, operations, and problem types) to provide practice for your child to build reasoning and problem solving skills. Generate problems one at a time to be solved and checked online or as a list that can be printed. Pair with the [Thinking Blocks Modeling Tool](#) or draw tape diagrams to practice making visual models of these problems.
3. [Bedtime Math: Daily Math](#) - Bedtime Math posts a nightly fun fact that highlights real life mathematics, and math “riddles” to keep families thinking about problems. Also explore the Math Games, Parent Blog and Apps available from this website.

Math Tools

1. [Virtual Manipulatives](#) can be used to explore or represent mathematical ideas. The tools on this site do not produce the questions for exploration, but may especially be helpful as students engage in the mathematics provided by teachers.
2. [Thinking Blocks Modeling Tool](#) - This web app provides a workspace for students to create their own tape diagrams for problem solving. The tools on this site do not produce the questions for exploration, but students can create their own problems and it may especially be helpful as students engage in the mathematics provided by teachers.

Computer Science and Logical Thinking

1. [Code.Org](#) - Reinforce mathematical thinking skills such as abstract representation, logical or algorithmic processes, analysis, critical thinking, and problem solving through the study of computer science and coding. This site includes smart device and screen-free activity options.