



The following digital resources are provided to assist with keeping students on track in their mathematical learning journey. Please note that teachers and schools may already have digital platforms in place to facilitate remote learning opportunities, which takes priority over anything that is shared here. This document is a living document, and the list provided is for informational purposes only. Linked resources have not been vetted through an OCID state-level curriculum review committee process. In addition, linked resources may require data sharing agreements.

ONLINE RESOURCES FOR MATH	Grade Level	Notes
Free Self-Paced Personalized Learning		
Khan Academy and Khan Academy Kids <ul style="list-style-type: none">• Additional Online Resources & More Information	PreK-16	<p>Provides self-paced, mastery-based learning for preschool through college-level mathematics. Semi-adaptive with course lessons assigned based on a pre-assessment (course challenge), though students may navigate to any part of the course as they wish for grades 3+.</p> <p>Daily schedules for ages 2-18 and remote learning resources available. Reporting features allow teachers to monitor student usage, progress, time on task. Teachers may also assign specific lessons. Monitoring is still important to address areas of difficulty.</p> <p>Khan Academy Kids is designed for preK-1, and designed for use on mobile devices for ease of use by young learners.</p> <p>For grades 2+, district level rostering, data analytics, training, and prioritized customer support available for purchase at \$10/student per year (minimum of 5,000 students). Discount of \$5/student per year may be available during this time of COVID-19.</p>
Zearn	K-5	<p>A blend of synchronous and asynchronous instruction that unites in-person instruction and immersive digital learning.</p> <p>Includes problem-solving with interactive models and checks for understanding with real-time feedback on every problem. Opportunities to use virtual manipulatives on the Zearn platform are available for students.</p> <p>Online component may be used as an adaptive, self-paced program where students move at their own pace with opportunities for remediation, review, practice, and acceleration. Teacher monitoring is still important to address areas of difficulty.</p> <p>Zearn is free. If a school would like more comprehensive reports, a site license would cost \$2,500.</p>

Please note that this list is provided for informational purposes, to support schools and families. Linked materials have not been vetted through an OCID state-level curriculum review committee process.



Lessons, Rich Math Tasks & Practice		
<u>NAEYC Math at Home</u>	PreK-3	Toolkit of 20+ resources.
<u>Education.com work packets</u>	PreK-5	A week's worth of learning materials across all subjects in one easy download.
<u>Bedtime Math App</u>	PreK-5	A great way for families with kids ages 3-9 to have fun with math together! Click for the daily math problem, a surprise problem, or any math problem in our archive, which you can browse to find your favorite topics.
<u>Origo At Home</u>	PreK-6	Activities with full instruction along with a variety of linked digital resources, listed materials, and pages that can be downloaded and printed if you wish.
<u>Fawn Nguyen's K-8 Remote Learning Activities</u> <u>HS Math Enrichment Problem Sets</u>	PreK-8 8-HS	Click on the links to access weeks of remote learning activities for each grade level, with additional exceptional resources provided.
<u>Which One Doesn't Belong!</u>	PreK-12	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. Enjoy!
<u>PBS Learning Media - Math</u>	PreK-12	Free, standards-aligned videos, interactives, lesson plans, and more!
<u>infinut Math App</u>	K-2	Free comprehensive, fun and engaging math app for Kindergarten, 1st and 2nd grade.
<u>Math Learning Center</u>	K-5	Free tools, materials, and other programs to inspire and enable individuals to discover and develop their mathematical confidence and ability.
<u>Mathwire</u>	K-5	Activities which support student development of number sense and the concept of mathematical operations.
<u>Investigation Math</u>	K-5	Online math games for K-5 students. Most games also include a printable record sheet to show your student's thinking as they play.
<u>Dreambox At Home</u>	K-8	Gamified, adaptive, online K-8 math program designed to develop

Please note that this list is provided for informational purposes, to support schools and families. Linked materials have not been vetted through an OCID state-level curriculum review committee process.



		mental math strategies (paper/pencil should not be used). Currently free.
Flipsnack	K-8	Origo's supporting mathematical thinking at home.
Prodigy Math <ul style="list-style-type: none">• User Guide• Resources	1-8	Prodigy provides an adaptive game-based math experience for students in 1st-8th grade that is research-based, standards-aligned, and provides teachers the ability to align the math content students see with the curriculum they need.
Would You Rather Math	K-12	Prompts to choose from two options where students could use mathematics to justify their reasoning.
NYC Learn At Home	K-12	These standards-aligned packets are a good option for students without internet or computer access.
A+ Click Math and Logic Problems	1-12	Math and logic problems to help enhance problem-solving by grade level
Youcubed	K-12	Tasks as well as resources for parents and students.
Open Middle	K-12	Challenging open symbolic math problems by grade level and topic
Fraction Talks	3-8+	Fraction Talks are a built around classroom talk and student action. These two principles guide the teacher's questions, disposition, and facilitation of the activity.
Desmos <ul style="list-style-type: none">• Desmos Updates for Coronavirus & Distance Learning• Dan Meyer Webinar for Distance Learning with Desmos	3-12	Interactive graphing activities to help students visualize and represent mathematics across mainly secondary mathematics topics, but some elementary topics are also included in their list of featured collections here .
Mathalicious	6-12	Lesson support and ideas.
Delta Math	6-12	Allows teachers to assign math practice content to their students. Students get immediate feedback as they complete the problems.



Geogebra	7-12	Over 1 million free activities, simulations, exercises, lessons, and games for math & science!
Kuta Software	7-12	Practice worksheets by grade level and topic (with answer key)
Open Up Resources	K-5, 6-8, HS	Family and student resources for virtual learning.
Figure This!	3-12	Problem solving challenges with support for family engagement.
Supplemental Instructional Videos		
Gem Stones on Youtube	1-5	Elementary math videos made by a student.
Math Antics on YouTube	3-8	Videos that cover topics from basic math to pre-algebra. Older students may find the content helpful for review.
Krista King Math on YouTube	8-16	Videos and written out cheat-sheet style notes and formula sheets to help every math student—from basic middle school classes to advanced calculus.
Learn Zillion	K-12	Short (3-10 minute) videos intended for teacher and student use focused on targeted concepts.
Math Tools, Books, & Textbooks		
Mathigon.org	6-12	“Math textbook of the future” with interactive courses and activities. Try it out!
TI-84 or TI-Nspire Free 6 Month License		Download a free six-month license of TI-84 or TI-Nspire software. The TI-Nspire for iPad app is also free to download through the end of April.
25 Books Connecting Math & Designers		List of math and design books for people who want to see the connection between math, design and the universe.
Open Stax	7-12	Access to free math textbooks.
Common Core State Standards		
Math Focus by Grade Levels	K-12	In case you are unsure about what topics to focus on, here are descriptions of the essential mathematics of each grade level from K-8, and important prerequisite concepts in high school mathematics

Please note that this list is provided for informational purposes, to support schools and families. Linked materials have not been vetted through an OCID state-level curriculum review committee process.



		for career and college readiness.
--	--	-----------------------------------

Courses to Support Math Learning		
How to Learn Math: For Students		Free self-paced course for learners of all levels of mathematics with Jo Boaler as the course instructor.
Learnstorm by Khan Academy		Helping students build growth mindset in the classroom. Teacher must create a Khan Academy account to set it up.

Additional Websites to Support Math Learning
http://www.estimation180.com/ http://solve.me.edc.org/play.html http://www.visualpatterns.org/ https://www.turnersgraphoftheweek.com/ https://www.nytimes.com/column/whats-going-on-in-this-graph