

## [Desmos](#)

Graphing

Analyze Data

Accessibility features such as Braille Displays

[Interactive activities and lessons](#) created by teachers

Free

### [Evaluation Rubric](#)

#### **DESMOS Resources:**

##### **Watch** (Videos)

[Introduction to DESMOS](#) (1:58 mins)

[Introduction to DESMOS Activities](#) (1:02 mins)

##### **Read** (Explore website)

[Desmos Main Website](#)

[Desmos Help Center](#)

##### **Follow up Resources**

[Desmos YouTube Channel](#)

[Interactive activities and lessons](#) Created by teachers

[Professional Learning at Desmos](#) Upcoming webinars and pre recorded webinars

## GeoGebra

### Graphing

### Resource Bank of Lessons

Geometric construction

CAS Calculator

Algebra

Scientific Calculator

Analyze data

Explore 3D Math

Classroom Mode

Notes feature

Integrates with [Graspable Math](#)

Freehand drawing feature in Notes

Free

### Evaluation Rubric

#### **GeoGebra Resources:**

##### **Watch** (Videos)

[Introduction to GeoGebra \(Big Picture\)](#) (1:44 mins)

[Example of solving a problem with GeoGebra](#) (4:39 mins)

[GeoGebra Classroom Demo \(Start to Finish\)](#) (4:35 mins)

[An Introduction to Geogebra Software for Teaching Math](#) (15:22)

##### **Read** (Explore website)

[GeoGebra Main Website](#)

[Learn GeoGebra](#) (tutorials/videos/recorded webinars)

##### **Follow up Resources**

[Introduction to GeoGebra Graphing](#) (overview of some graph functions; 56:56 mins)

[GeoGebra YouTube Channel](#)

## [TextHelp EquatIO](#)

Handwriting Recognition

Virtual Manipulatives

Equation Prediction

Interactive Periodic Table of Contents

Speech to Text

Virtually manipulate atoms/compounds

Works with MS Word, Google Docs, Sheets, Slides, Forms & Drawings

Freemium; Premium [free for all educators](#)

### **EquatIO Resources:**

#### **Watch** (Videos)

[EquatIO in 5](#) (5:22) (Does not show specific science tools)

[How to Use EquatIO's STEM Tools](#) (Periodic Table; molecular models; 2:47)

[Getting Your Students Started with EquatIO](#) (overview video; 3:08 mins)

[Getting Your Students Started with EquatIO MathSpace](#) (Overview demonstrates tools for older students but this has tools for younger students also; 2 mins)

[EquatIO MathSpace Updates](#) (This short video will show you some elementary examples of Mathspace; 2:03 mins)

#### **Read** (Explore website)

[EquatIO Main Website](#)

[EquatIO Training & Learning](#)

#### **Follow up Resources**

[TextHelp EquatIO YouTube Channel](#)

[EquatIO Overview Video](#) (Excellent overview of ALL EquatIO features; 32:39 mins)

[Using OrbitNote and Equatio To Make Math & STEM Digital](#) (2:21 mins)

[Free Premium subscription for teachers](#)

## Microsoft & Google Suites

### [Microsoft Math Solver](#)

Solve math problems

Graph solutions

Explain the steps

Text to Speech reads aloud

Available in:

Edge Browser

[OneNote Math Feature](#)

Standalone app

### [Google Web Browser](#)

Solve math problems

Graph solutions

Use On-screen calculator

[Control Alt Achieve Blog Math Resources](#)

by Eric Curts

### **OneNote Math Feature & Spreadsheet for Math Resources:**

#### **Watch (videos)**

[Microsoft Math Solver Video](#) (30 seconds)

[Solving Math with OneNote Math Tools Demo](#) (2:46 mins)

[Google chrome tips and tricks How to do math problems and even have a scientific calculator](#) (1:56 mins)

#### **Read (Explore website)**

[Microsoft Math Solver](#)

[Solve Math Equations with Math Assistant in OneNote](#)

[Control Alt Achieve Blog - Google Suite Math Resources](#)

#### **Follow up Resources**

[Microsoft Learn Educator Center](#)

[STEM and Literacy with Microsoft: Math Tools in One Note](#) (1 hour free webinar 9/26/22)

## Apps to Replace Paper/Pencil

### [Mod Math iTunes App](#)

“Provides students with a pencil-free platform for doing basic arithmetic. Allows older students to complete more complex math assignments, including fractions, square roots and algebraic equations. “

<http://www.modmath.com/about/>

### [Math Paper App](#)

Basic math through upper algebra and geometry

Predictive cursor

Switch Accessible

### [Kami PDF Editor](#)

Solve math problems digitally right on the PDF

Equation Editor

Geometry

## Apps to Replace Paper/Pencil Resources:

### **Watch** (videos)

[ModMath 2.0](#) (2:46 mins)

[Panther Math Paper](#) (Specialist demonstrating and discussing pros/cons; 3:41 mins)

[Panther Math Paper](#) (Video produced by Panther; 2:28 mins)

[Kami for Math](#) (Overview; 3:57 mins)

### **Read** (Explore website)

[ModMath](#)

[Panther MathPaper](#)

[Learn Kami](#)

### **Follow up Resources**

[YouTube ModMath app](#)

[YouTube Panther Math Paper](#)

[YouTube Kami Channel](#)

## Virtual Manipulatives

[Didax Virtual Manipulatives](#) (includes Unifix Cubes, Ten-Frames, Math Balance & more)

[Math Learning Center Apps](#)

[Mathigon](#)

[Math Playground Manipulatives](#)

[Toy Theater](#) (Dice, Timers, Clocks, money from various countries & more)

### Kidspiration Math View Resources:

#### **Watch** (videos)

[Best Online Manipulative Math Resources](#) (Demo of Math Learning Center, Didax Manipulatives, Mathigon; 9 mins)

[Virtual Manipulatives](#) by PowerUp (Introduction to manipulatives; Suggestion: Go to Part 3 at 3:00 minute mark; 5:49 mins)

#### **Read** (Explore website)

[Getting Started with Virtual Manipulatives](#) by Brittany Hege

[Five Ways to Use Virtual Manipulatives](#) by Didax

#### **Follow up Resources**

[YouTube Math Virtual Manipulatives](#)

[Using Virtual Manipulatives to Teach Math](#) by PowerUpWhat Works (includes the research supporting manipulatives)

## Low Tech/No Tech

### Rekenrek

#### [Make a Rekenrek](#)

Ideas for how to use

[K-5 Math Teaching Resources Rekenrek](#)

[The Recovering Traditionalist: What the Heck is a Rekenrek?](#)

#### [23 Fun Beach Ball Games and Activities...](#)

6, 8, 15 and 16 are specifically Math/STEM but all of the ideas will get you thinking

[Heads Up Card Game to practice Math Facts](#)

[Counting Rope \(created by Kim Sutton\)](#)

### Math Grouping Idea

Magic Box Activity (Teaching Students with Moderate & Severe Disabilities, Browder & Spooner, 2011, pg. 184)

Students draw a number (from a stack of cards, spinner, etc)

Place that number of objects in box with low divider and lid

Close box and shake

Record how many objects on each side of divider

### **Watch** (videos)

[Counting Rope Kim Sutton](#) (3:31 mins)

[How to Use a Rekenrek](#) (2:04 mins)

### **Read** (Explore website)

[Denise Gaskin's Let's Play Math Blog](#)

### **Follow up Resources**

Please share your own resources/activities/ideas

## Explore More Resources

- [Inclusive Learning Website STEM Pages](#)
- [Mathematics: Menu of Best Practices and Strategies](#)
- [UDL Guidelines: Math Examples](#)

Adapted by Katie Novak, EdD, Nathan Lang-Raad, and Karen Gartland

- Resource Lists
  - [SETC Math Resource List](#) March 2023 - list of math resources compiled from educators around the United States
  - [Math Resources from M Stanberry](#)
- [Special Education Technology Center](#) STEM Webinars
  - [09/19/2022, STEM and Literacy with Microsoft: STEM, Microsoft, and You!](#)
  - [09/26/2022, STEM and Literacy with Microsoft: Math Tools in One Note](#)
  - [10/10/2022, STEM and Literacy with Microsoft: Reading Progress](#)
  - [10/24/2022, STEM and Literacy with Microsoft: Reading Coach](#)
  - [11/14/2022, STEM and Literacy with Microsoft: Microsoft Translator and the STEM Classroom](#)
  - [11/21/2022, STEM and Literacy with Microsoft: Using Immersive Reader for STEM](#)
  - [12/05/2022, STEM and Literacy with Microsoft: Unlocking Literacy with Minecraft](#)
  - [12/12/2022, STEM and Literacy with Microsoft: Using Microsoft Teams to Create Inclusive STEM Classrooms](#)
  - [12/07/2022, Using High School Ideas to Scaffold Math Pre-grade Level Content, to Include All Students](#)