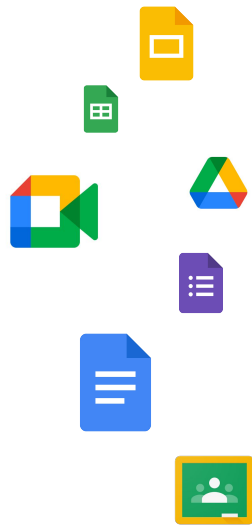


Actively engage students with STEAM

Teach with Chrome Series



March 31, 2022

Speaker slide



Margaret Powers

Director of STEAM Innovation &
Google Certified Innovator

The Agnes Irwin School

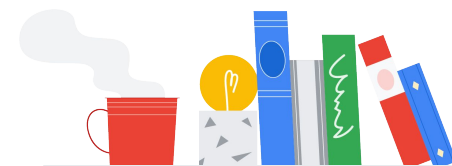
Find me on Twitter: [@mpowers3](https://twitter.com/mpowers3)



Donna Teuber

Google for Education Certified
Trainer, Innovator, and Coach

Kiker Learning



Agenda

1

Start with
Apps

2

Start with
Projects

3

Resources
and Q&A

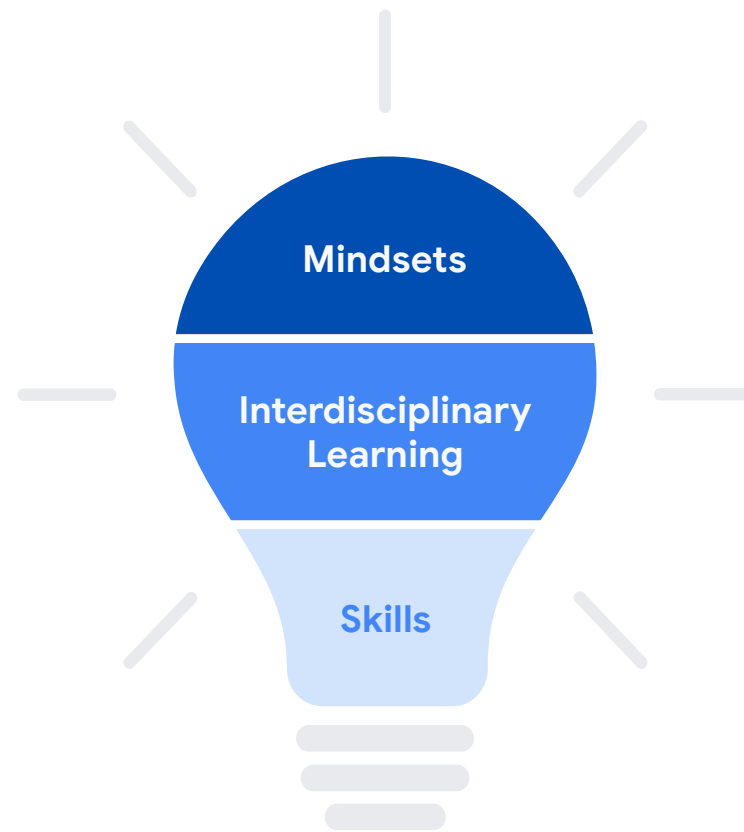
Please use the chat feature for any questions or comments.



What is STEAM?

“An educational approach to learning that uses science, technology, engineering, the arts, and mathematics as access points for guiding student inquiry, dialogue, and critical thinking”

- Education Closet



Option 1

Start with Apps

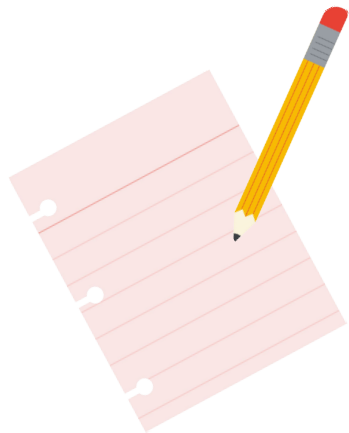


Find Your Tools

Chromebook App Hub

The [Chromebook App Hub](#) is a great place to spend some time looking for new apps that will work with Chromebooks and align to your learning goals.

Filter by category, like “STEM” or “drawing and illustration” or age range and find the resources that will best support your students!



STEAM Learning on a Chromebook



[Code.org](#)

- Support students in learning how to code
- Courses span a K-12 computer science pathway
- Free to use, easy to get started



[LittleBits Code Kit](#)

- Learn basic circuitry
- Engage students in engineering
- Explore how to apply code to the physical world



[EquatIO](#)

- Easily type or handwrite virtually any mathematical expressions
- Create interactive math quizzes and assignments

Code.org TeacherTools

- Synch with Google Classroom
- Push out courses to different sections
- Track individual student progress

Unit

View By

Jump to lesson

Intro to App Lab

1 →

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

littleBits Code Kit Chrome App

- Includes standards-aligned curriculum
- Handouts & Workshop Guide
- Easy to get started!



EquatIO

- Integrates with Google Workspace products and allows math to become collaborative
- Easily share mathspace assignments to Google Classroom

Simplify & state the excluded value: *

$$\frac{2r + 18}{r^2 + 8r - 9}$$

Your answer



Find the zeros of each rational function: *

$$f(x) = \frac{x^2 + 2x - 15}{x + 1}$$

Your answer



Find the zeros of each rational function: *

$$f(x) = \frac{x^2 + 6x + 8}{x^2 + x - 2}$$

Your answer



Submit

Clear form

Option 2

Start with a Project

STEAM Projects on a Chromebook



Book Creator

- Easily combine STEAM subjects into one project
- Low floor, high ceiling
- Supports student creativity, collaboration, and critical thinking
- Check out their templates!



Tinkercad

- Engage students in 3D design, coding, and circuitry
- Model online or export for laser cutting, 3D printing, & fabrication!
- Free to use & lots of great lesson plans!



App Smash!

- Slides (storyboard)
- [Pexels](#) (images)
- [Flipgrid](#) (video)
- [EarSketch](#) and [breakbeatcode](#)
- Forms (reflections)

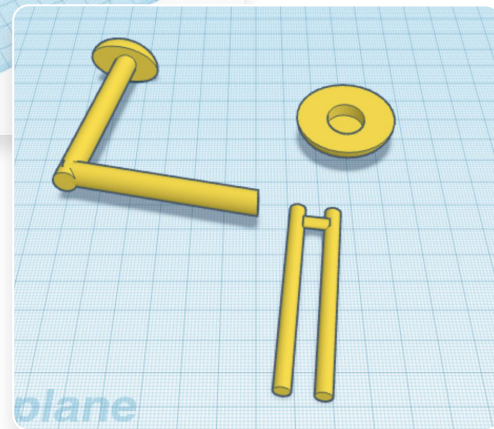
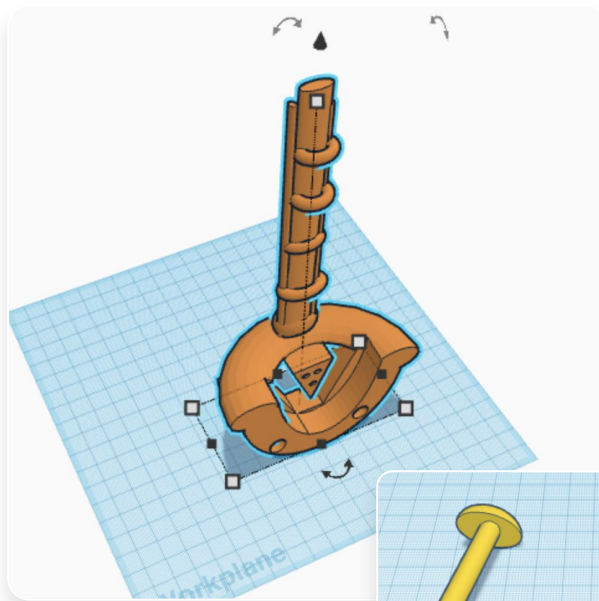
Book Creator

- Choose from diverse templates to guide student design
- Easily integrate different STEAM disciplines
- Students can collaborate across devices
- Embed audio, video, images, maps, and more!



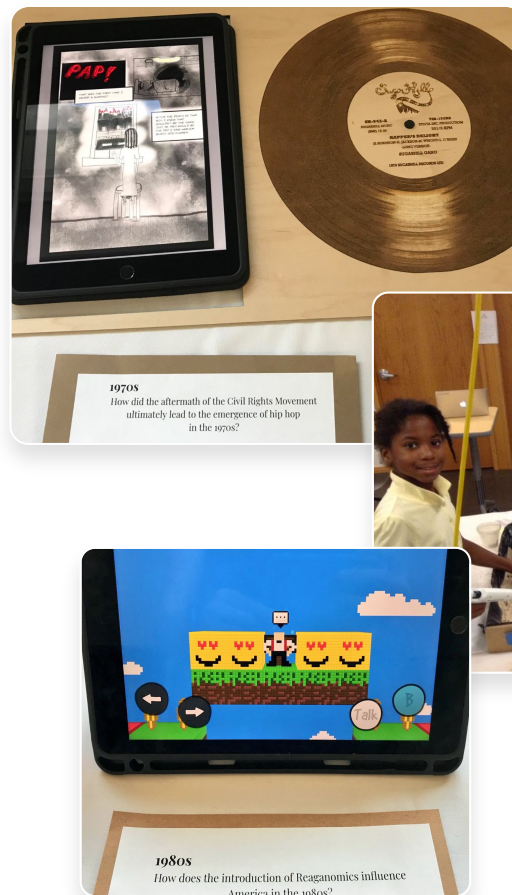
Tinkercad

- Supports 3D design, circuitry, and coding
- Lesson plans from the Smithsonian
- Tutorials make it easy to get started
- Great tool for students to prototype products and demonstrate learning



Let's App Smash!

- Use a few different apps to complete a project
- Make something in one app and use it in another or just use one after another to accomplish your goals



Section 3

Resources and Q&A

Resources



[!\[\]\(666e09182d4cd268646ea700ea60dcdf_img.jpg\) Get to know Chromebooks](#)

[!\[\]\(c3d993ca47bfe2a953c700506ce31fa0_img.jpg\) Chromebook App Hub](#)

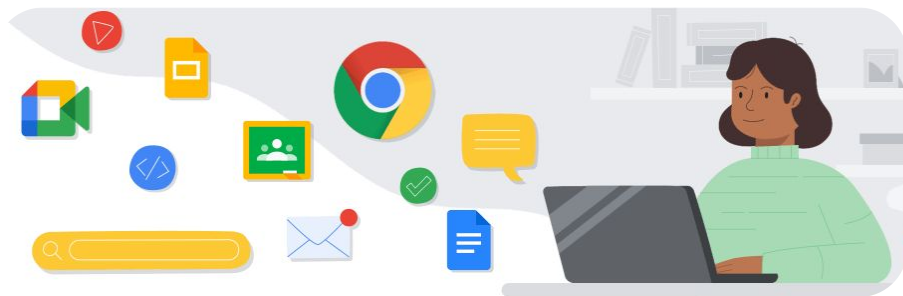
[!\[\]\(d66ff64371a51729ac8c1cdaa685ba6f_img.jpg\) Google for Education teacher resources](#)

[!\[\]\(e3f8612927870f2e0f9f5989e6dd3064_img.jpg\) Experiments with Google](#)

[!\[\]\(003082e50e3009141f59bd5df831749f_img.jpg\) Applied Digital Skills](#)



Q&A



Thank you

Google for Education