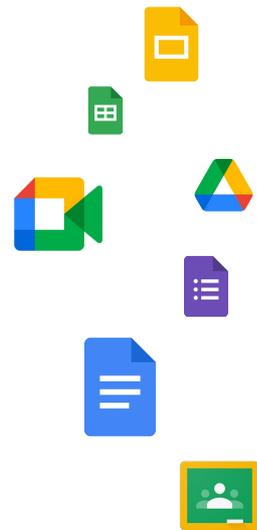


# CAD-ding on Chromebooks

Teach with Chrome Series



---

March 8, 2022

# Speaker



## **Allen Smith, BSIA, MSIS, MBA, Six Sigma**

STEM Engineering Teacher, Chester STEM Academy

[alsmith@chesteruplandsd.org](mailto:alsmith@chesteruplandsd.org) | (484) 657-4834



# Agenda



Introduction  
Chromebooks Challenge  
Microsoft Surface

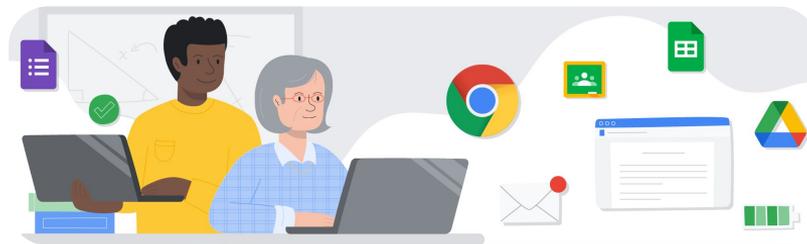


Web Engineering Apps



Cloud Assisted  
Engineering Apps





# Introduction: Chromebooks CAD-Doing in Engineering Apps for Students

# Web Apps for Engineering

AutoCAD Web (2D)

AutoDesk TinkerCAD (3D)

Engineering Simulators



# Internet dependent CAD apps

The STEM Engineering program first accomplished the CAD requirements of the Pennsylvania Department of Education standards for Career and Technical Education Engineering 15.999 by using online apps that were not installed on Chromebooks such as:



These programs are adequate for high school introduction to engineering CAD. Touchscreen Chromebooks plus a mouse, removed the need to turn to Microsoft Surface Tablets.



# Cloud Apps for Engineering

AutoCAD 2022

Inventor Professional 2022

Revit

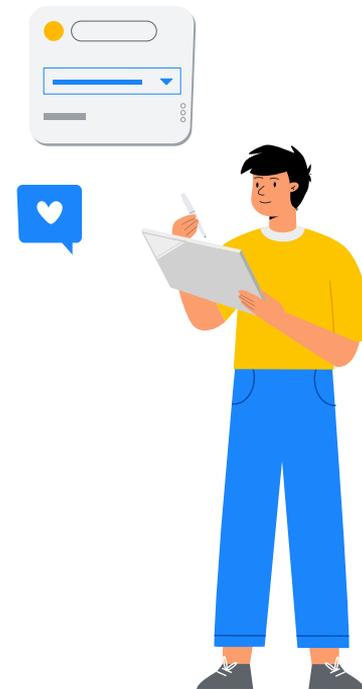


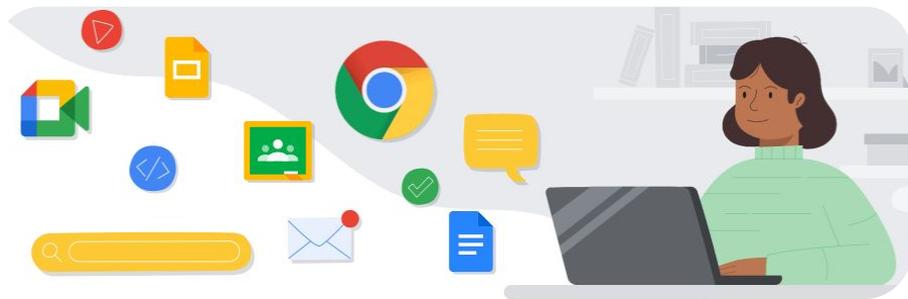
# Itopia Cloud installed CAD apps

By adding Cloud Computing access to Chromebooks, the Engineering program is now able to teach real day CAD concepts using touch screen Chromebooks with a mouse.

Most notable, is that there was no appreciable latency with the professional version of AutoCAD 2022 on which includes 3D capability on Itopia Cloud, versus latency MOST of the time using AutoCAD Web online.

Students are also able to learn AutoDesk Revit, the professional (AEC) Architectural Engineering & Construction industry standard for (BIM) Building Information Modeling. Most high school programs are teaching Sketchup or BricsCAD. Most are also using PC based tablets. We are able to teach Pro level concepts using the Chromebook and Itopia.





# Thank you

Google for Education