**AP CSP Resources**

**Creating infographics/interactive posters/maps**

<https://venngage.com/>

<https://www.canva.com/create/infographics/> (<https://www.canva.com> for general design creations)

<http://www.easel.ly/> (???)

<https://piktochart.com/>

<https://infogr.am/>

<https://play.google.com/store/apps/details?id=mariusSoft.InFotoFree&hl=en>

<http://www.dipity.com/> (timelines)

<http://www.thinglink.com/>

<https://web.picovico.com/en/home> (converts photos to videos)

<https://www.lucidpress.com/>

**Programming** *(Seen while scoring PT 2016)*

Alice ([alice.org](http://www.alice.org/index.php)) - code to create a story in a 3D environment

App Inventor ([ai2.appinventor.mit.edu](http://ai2.appinventor.mit.edu/)) - teach your android phone

App Lab ([code.org/educate/applab](https://code.org/educate/applab)) - code.org’s environment to develop online apps

EarSketch ([earsketch.gatech.edu](http://earsketch.gatech.edu/landing/)) - make music with code

Java in BlueJ () - great for students who took APCS A in a prior year

Java with Greenfoot ([greenfoot.org](http://www.greenfoot.org/door)) - use java to make games

JavaScript ([javascript.com](https://www.javascript.com/)) - java without a compiler; used online

Karel ([karel.sourceforge.net](http://karel.sourceforge.net/)) - Teach Karel the robot to move

Lego Mindstorms NXT ([nxtprograms.com](http://www.nxtprograms.com/)) - For use with lego robots, block-based

Pencil Code ([pencilcode.net](https://pencilcode.net/)) - use block-based and text language to create art, music, and/or a story

Processing ([processing.org](https://processing.org/)) - learn to code in context of visual arts

Python ([python.org](https://www.python.org/)) - code between systems

R ([r-project.org](https://www.r-project.org/)) and RStudio ([rstudio.com](https://www.rstudio.com/)) - programming language for statisticians (code that plays with data)

Scratch ([scratch.mit.edu](https://scratch.mit.edu/)) - create characters and narrate their behavior with code

Snap! ([snap.berkeley.edu](http://snap.berkeley.edu/)) - extension of scratch, allows class creation

Swift ([developer.apple.com/swift](https://developer.apple.com/swift/)) - teach your apple device

Trinket (<https://trinket.io/>)

**For Planning Code**

MindMeister ([mindmeister.com](https://www.mindmeister.com/)) – Create flowcharts and manage projects; online tool is free and easy to use to coordinate moving many people in one direction

Padlet ([padlet.com](https://padlet.com/)) – group think/posting site – ask a question- collect people’s thoughts in a unique way.

**Video**

<https://www.wevideo.com/>

<https://screencast-o-matic.com/home>

<https://biteable.com/>

<http://www.kizoa.com/>

<https://www.tubechop.com/> (chop a section of a YouTube video)

<http://www.animaker.com/> (animated videos)

<http://wideo.co/en/>

<https://vimeo.com/home> – video editing online; no download required

<http://www.animaker.com/> – Turn still images into a video; Explainer Videos Easil

<http://www.zamzar.com/> - convert a file to a different file type.

<https://www.magisto.com/>

**For Research**

Google Search Commands ([support.google.com](https://support.google.com/websearch/answer/2466433?hl=en)) – to help you search more efficiently.

ACM Tech News ([technews.acm.org](http://technews.acm.org/)) - "Timely information for IT professionals"

Google Scholar ([scholar.google.com](https://scholar.google.com/)) - access research articles to "Stand on the shoulder of giants."

NPR Tech News ([NPR.org](http://www.npr.org/sections/technology/)) - National Public Radio Tech Segment

Science Daily ([sciencedaily.com](https://www.sciencedaily.com/)) - Latest research news in science, technology, engineering and math.

TechNewsWorld (<http://www.technewsworld.com/> )

**Other**

Keyword search in Curriculum Framework: <http://www.cs.duke.edu/csed/csprinciples/framework/>

ClipArt ([openclipart.org](https://openclipart.org/)) – snippets of art being shared for your use

Common Creative license media search: <http://search.creativecommons.org/>

Google Images: <https://images.google.com/> To search for a Common Creative license images, search for an image, then on the results page, select Search tools. Under the Usage Rights drop-down, select the appropriate level.

Audacity (<http://www.audacityteam.org/> ) – Edit sound files; requires a download

FreeSound ([freesound.org](http://freesound.org/people/Npeo/sounds/207382/)) – sounds without copyright worries

Pixlr ([pixlr.com](https://pixlr.com/)) – picture editing software; edit and add special effects to an image; Download required.

Tagul ([tagul.com](https://tagul.com/)) – create interesting word clouds

Desmos ([desmos.com](https://www.desmos.com/)) – Free. Beautiful. Math.  Plotter and tools for investigation.

Google Books NGram Viewer ([books.google.com](https://books.google.com/ngrams)) – Search books over hundreds of years for word and/or name appearances

Interactivate ([shodor.org/interactivate](http://www.shodor.org/interactivate/)) – Tools to create using math and science

Latex to HTML Conversion Tool ([codecogs.com](http://www.codecogs.com/latex/eqneditor.php)) – Change equation to latex for html

Blown to Bits: (<http://www.bitsbook.com/>)

Khan Academy (<https://www.khanacademy.org/computing/computer-science>) -Great short content videos.

Exploring Computer Science (<http://www.exploringcs.org/> )

Computer Science Unplugged (<http://csunplugged.org/)>

CodeInTheBrowser (<http://codeinthebrowser.org/> )

Warriors of the Net (<https://www.youtube.com/watch?v=PBWhzz_Gn10> ) Packet video

<http://generatedata.com/> Generate your own data sets.

<http://www.zamzar.com/> Online file conversion, covering a wide range of different image, document, music, video and compression formats. Free for files up to 100MB

**AP CSP Resources**

<https://apcommunity.collegeboard.org/web/apcsp>

<http://apcsprinciples.org/>

**Web Development**

<http://www.weebly.com/weebly/onboarding.php>

<http://www.aptana.com/>

<http://codepen.io/>