Easy Tech for the Elementary Teacher

TCCA 2020

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Simple ways to transform what and how you teach.

No need to break your budget or sanity to produce great lessons.

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Spending Money

(as little as possible)

Use Old Smartphones as Media Player

- Download music onto phone (or sd card) so you do not have to be tied to the cd player.
- Streaming issues spotty or no wifi, no notifications
- Creating playlist for lessons makes it easier to access as well as refer back to previous lessons. (I also have a student favorite playlist)

Bluetooth

- Connect to audio receiver via Bluetooth.
 If your receiver does not have Bluetooth but does have inputs, get a Bluetooth audio adapter. (\$20ish)
- If your computer does not have bluetooth you can connect using a dongle. (\$10-15ish)
- Alto Professional XLR Bluetooth Adapter Can plug into powered speaker or a mixer.
 With two, can be in stereo. (\$60ish)



HDMI– Make your connection to the projector more comfortable for teaching. 25ft cables allow you to have your computer where it is best for you, not just near the plug.

Speakers – Small personal speakers do not generate enough sound. Get good quality sounding with enough volume headroom. There are a wide variety of options aside from regular stereos: personal monitors (Behringer Eurolive B205D, Mackie Freeplay, etc) powered monitors, keyboard amps, powered speakers.

You can find used ones on ebay, craigslist, facebook marketplace, etc

Funding – Grants, Donors Choice, find a local sponsor, Boosters, School Budget (multi-use, faculty meetings) etc.



Behringer Eurolive B205D



Mackie Freeplay

Band-In-A-Box

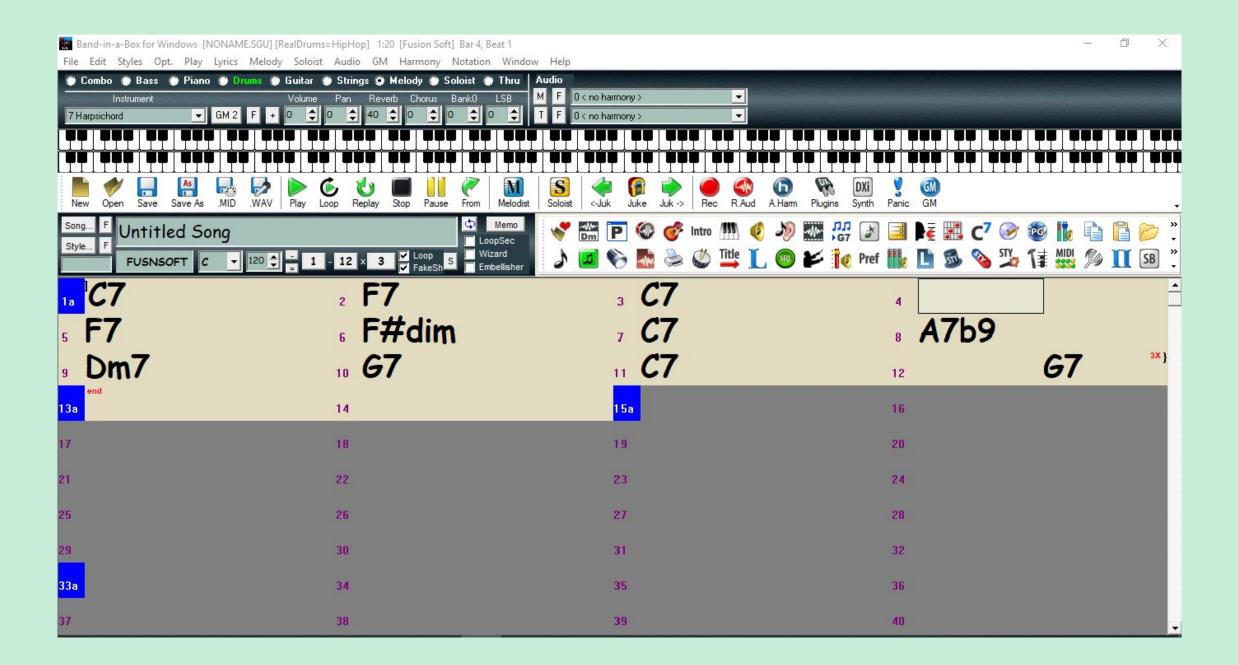
While this program does cost some money (roughly \$130, pgmusic), it is one of the most versatile tool that you can purchase.

The Basic concept is that you type in chord names (F, G7, Cm, etc.) and the program creates an accompaniment in any style that you select (and there are *thousands* of styles available!)

With this you can teach:

- *phrasing* have each chord play for 4 or 8 measures and have the students move then change movements when the chord changes. This gets the student to listen beyond the lyrics.
- form similar to phrases, the students can use movement to show the form (you can change the style for each section)
- create games I created an accompaniment to Miss Mary Mack. The song can then be sped up, making it more challenging.
- create your own accompaniment tracks for performances create your own arrangement for traditional and folk songs.

There is tons more that the program can do: record melodies, add recordings to the accompaniment, ear-training, sequencer, mixer, print notation for parts, create solos in styles of famous players, and much more!



Free Stuff

Free Stuff

Free Stuff

Super Cool Chrome Interactives

Chrome Music Lab: musiclab.chromeexperiments.com

"Chrome Music Lab is a website that makes learning music more accessible through fun, hands-on experiments." 14 ways for you to have fun learning about music.

Creatability Collection:

https://experiments.withgoogle.com/collection/creatability

More ways to experience music. The emphasis is making it accessible to all students, even the challenged ones. One example is a keyboard that you can play with your face, body, mouse, or keys.

Interactive WhiteBoard alternative/additive

Google Remote Desktop

Allows you to *control* your computer from another device: computer, tablet, ipad, phone

Needs wifi, chrome browser, and the app.

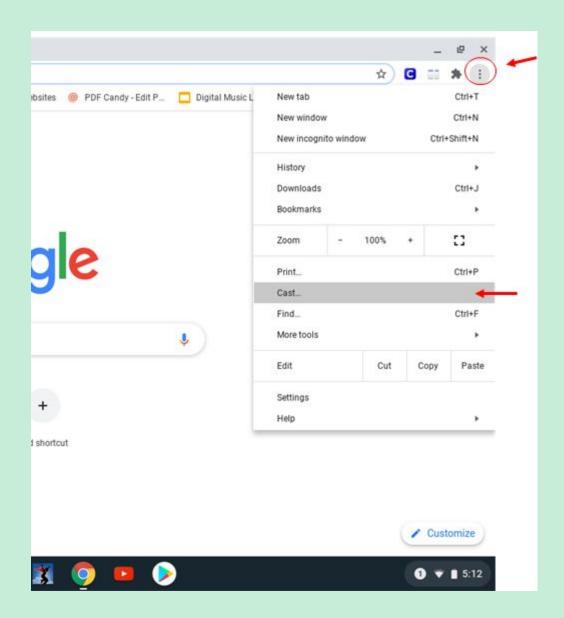
With a connected ipad or tablet you can roam around the room while still controlling what is happening on the computer.

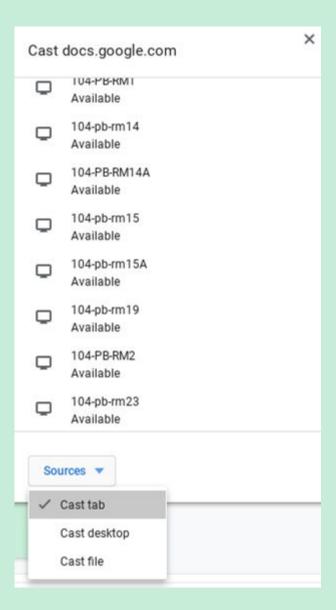
Cast for Chrome (not to be confused with the Chromecast)

Allows you to **send** your screen to another device. Part of Google Chrome browser naturally, found by clicking the 3 dots on the upper right.

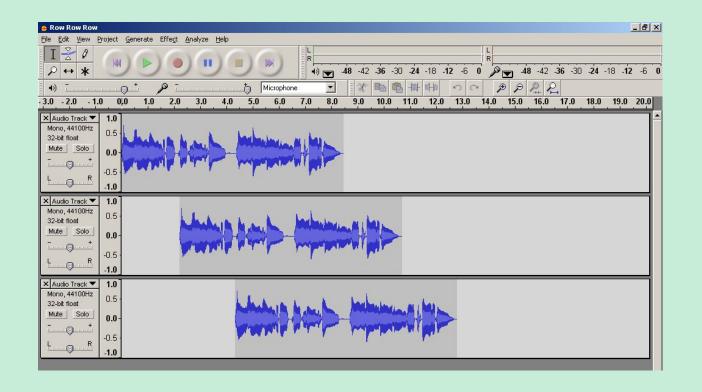
Both devices must be on the same wifi network.

Similar to most screen sharing methods, can share by tab, full screen, or file. Unlike others, sound will be heard no matter which mode you select (not just on "tab")





Audacity – FREE Audio Editor



Some school districts have it already installed. If not, make sure that your tech guy downloads and installs the LAME (for making mp3s) and FFmpeg (for accessing other formats such as m4a, wma, etc) files.

- Can shorten a song Cut out unneeded verses (i.e. "Texas, Our Texas")
- Lengthen a song extend for graduation ceremonies
- Create your own medley
- Change speed
- Change key
- Layer clips

Fonts

Rhythm Font – create musical rhythms in any program that uses words. (There other similar fonts but this is my favorite in terms of looks and ease of use)



Recorder Font – Shows fingering diagrams for the recorder. It also has a blank template

Both Recorder and Rhythm font are free and available at **Hindson.com.au look under Free Things**



Music Ed Font (\$25 from musicteachertools.com)

Has Cerwin hands signs, regular rhythms, Kodály stick notation (headless rhythm stems) and keyboard diagrams





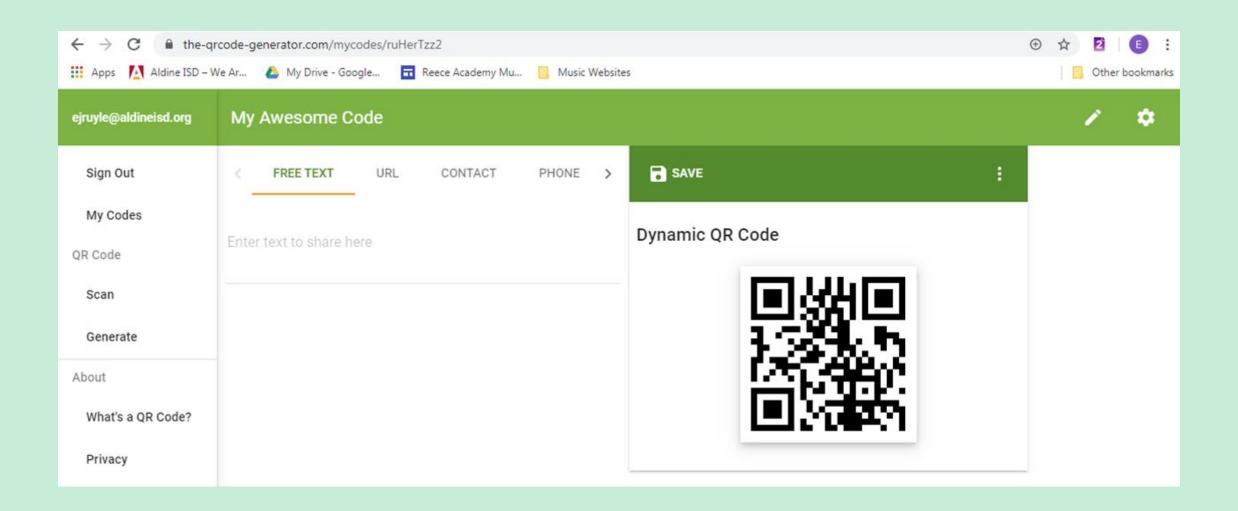




QR Codes

Can be used to link to anything: pictures, forms, files, text, contacts, etc

- Create a scavenger hunt QR codes around the room/school to pictures, riddles, questions, clues to a puzzle
- Use as Exit ticket students login in and answer survey



Microsoft Publisher Magic

*Publisher is the most powerful tool that all most no one uses.

- Create/customize
- Convert things into pictures (png, jpeg, tiff, gif. etc)
- Handouts
- Worksheets
- Flyers for programs
- Listening maps
- Boomwhacker material

Adding Note Values

Add the values together. Put the total to the right.

$$\downarrow + \downarrow + _{o} =$$

Draw a line connecting the instrument name and its picture



Trombone

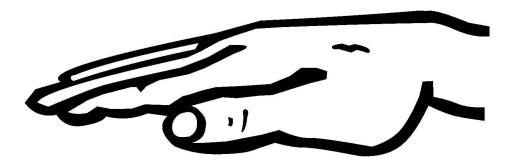
Trumpet

Tuba

Flute

Oboe

French Horn



Solfege Hand Signs



Do









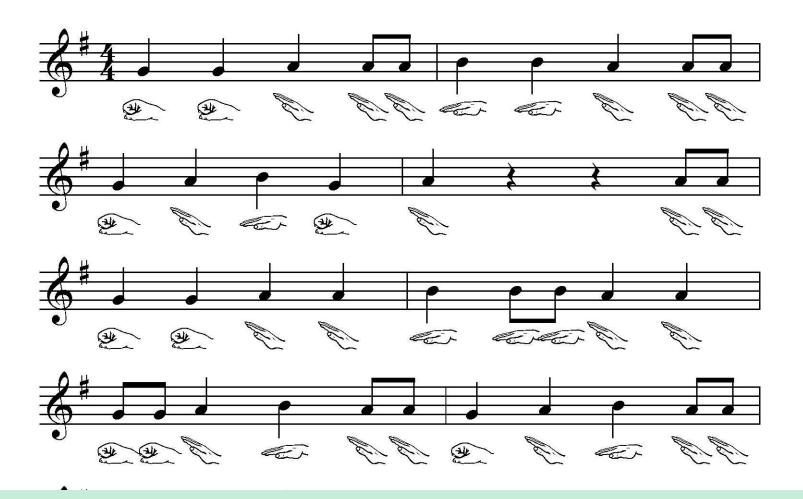


Mi



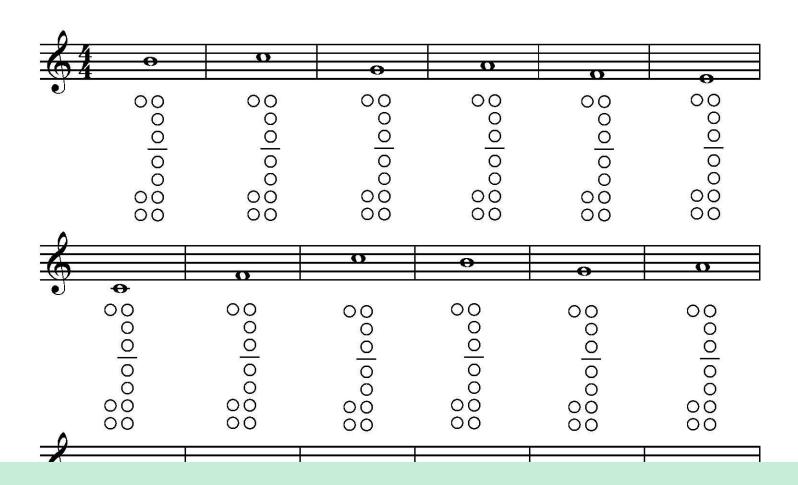


Woodchuck



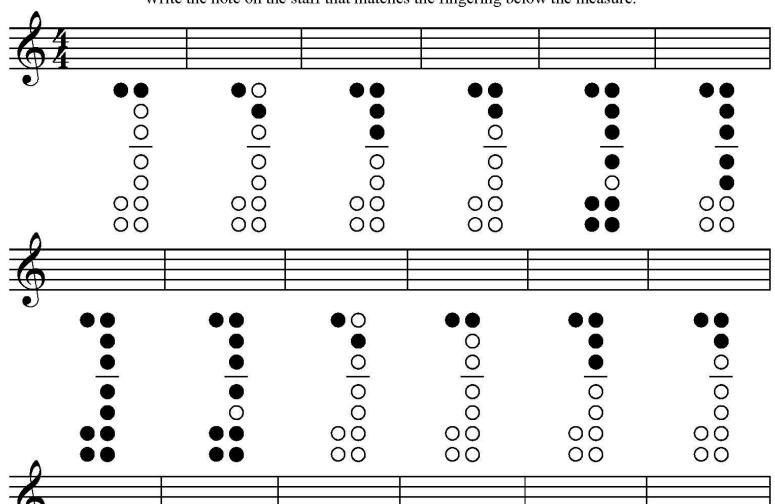
Recorder Fingering Worksheet #1

Fill in the circles to create the fingering that matches the note above.



Recorder Fingering Worksheet #2

Write the note on the staff that matches the fingering below the measure.



Ta & Ti Worksheet

Under the notes and rests write the correct syllable: Ta =

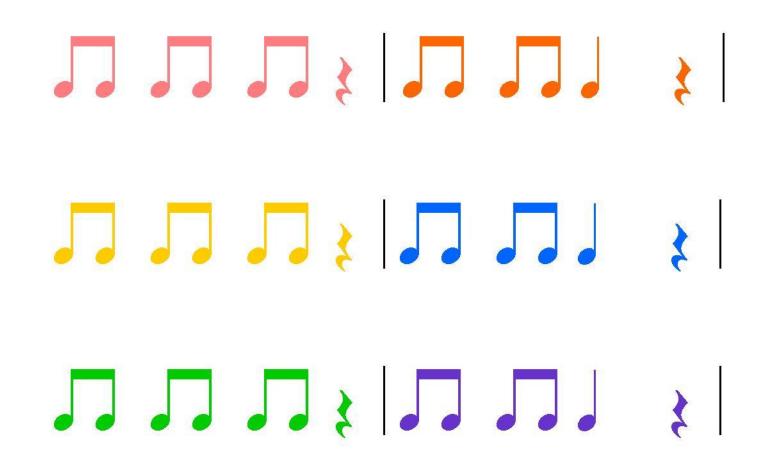
✓ Ta Ti =

✓ R =

≹



Hot Dog



Twinkle, Twinkle

