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21st century speech-language therapy: Digital technologies to help school-aged children grow as communicators

Erik X. Raj, Ph.D., CCC-SLP www.erikxraj.com www.slpvideogames.com



Disclosures:

- Financial Disclosure
 - Receiving honorarium
- Non-Financial Disclosure
 - · None to report.



In addition to being a practicing clinician, I'm also a researcher...

I <u>love</u> technology!



Strong focus in digital experiences



facebook







Some of my published work...

• A healthy number of people who stutter do happily take part in mobile device-driven experiences (e.g., numerous social networking and Internet-driven activities) on their iPhones and iPads (Dignazio et al., 2020; Raj, 2021; Raj, 2022; Raj & Daniels, 2017; Trichon & Raj, 2018).



- Raj, E. X. (2022). Laughter in stuttering therapy: Using humor-based apps to begin meaningful discussions. In H. Sonsterud & K. Węsierska (Eds.), Dialogue without barriers: Stuttering management for children and adults. (pp. 583-603). Poland: Agere Aude Foundation for Knowledge and Social Dialogue.
- Raj, E. X. (2021). Silencing the doubt and accepting invitations. In Aurora Corialis Publishing. Becoming an exceptional SLP leader: 14 speech-language pathologists do much more than talk. (pp. 49-61). Phoenix, AZ: Mai Ling Chan, LLC.
- Dignazio, L. E., Kenny, M. M., Raj, E. X., & Pelkey, K. D. (2020). Stuttering-related podcasts: Audio-based self-help for people who stutter. Perspectives of the ASHA Special Interest Groups, 5(5), 1131-1138.
- Trichon, M. & Raj, E. X. (2018). Peer support for people who stutter: History, benefits, and accessibility. In B. J. Amster & E. R. Klein (Eds.), More than fluency: The social, emotional, and cognitive dimensions of stuttering. (pp. 187-214). San Diego, CA: Plural Publishing
- Raj, E. X., & Daniels, D. E. (2017). Psychosocial support for adults who stutter: Exploring the role of online communities. Speech, Language and Hearing, 20(3), 144-153.

What does it mean to be a 21st century clinician?

- Being <u>aware</u> of digital technology
- <u>Understanding</u> trends
- Giving it a try



AWARE, UNDERSTAND, TRY

You are...

- Adaptive
- Lifelong learner
- Curious about tech
- Collaborative
- Forward thinking



https://www.thoughtco.com/characteristicsof-a-21st-century-teacher-2081448

So this is what I'm obsessing over...



The question:

How might we be able to use <u>digital</u> <u>technology</u> in a manner that benefits individuals on our caseload?

Today, we're going to explore the internet...

DISCOVER

REPUROSE

INDIVIDUALIZE

ASHA smiles when we do the whole "emerging technology" thing:



"As technology and science advance," we, as SLPs, are expected to be aware of and utilize "emerging technologies" for "assessment and intervention related to communication and swallowing disorders" (American Speech-Language-Hearing Association, 2016).

https://www.asha.org/policy/sp2016-00343/

FIVES criteria described by Sean Sweeney (Davis & Sweeney, 2015)

- · Free/fairly priced
- Interactive
- Visual
- Educationally relevant
- Speechie



https://pubs.asha.org/doi/abs/10.1044/aac24.1.19

What does it mean to be a digital citizen?

- 21st century // clinician 💜
- Digital citizen?
 - What is it?
 - · How does it connect to people on our caseload?



What does it mean to be a digital citizen?

digital citizen

[dij-i-tl sit-uh-zuhn, -suhn] show IPA 🌒 🏠



https://www.dictionary.com/browse/digital-citizen

High School Level

поип

a person who develops the skills and knowledge to effectively use the internet and other digital technology, especially in order to participate responsibly in social and civic

We're teaching students how to become good digital citizens.

Communication is happening physical spaces and digital spaces:

Just a few...









And many more!

https://www.commonsense.org/

- <u>Common Sense</u> is the leading nonprofit organization dedicated to helping all kids thrive in a world of media and technology.
- · Common Sense tiene recursos en español.
 - Ver el programa Latino. https://www.commonsensemedia.org/es/latino







Digital Citizen Curriculum

- It goes from Kindergarten through 12th grade.
- We will do three together.
 - (Kindergarten, 2nd grade, 7th grade)



Media Balance is Important (Kindergarten)

- Learning Objectives:
 - Know when and why to take breaks from device time.
 - Consider the feelings of people around them, even when engaged in fun online activities.
- Key Vocabulary: balance, device

First we would play a song...



Direct links:

- https://www.commonsense.org/education/digital-citizenship/lesson/media-balance-is-important
- https://youtu.be/ikzY4NQeR1U

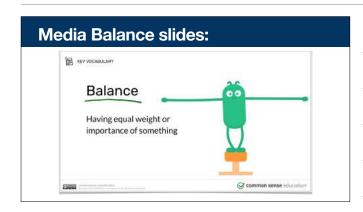
Media Balance slides:



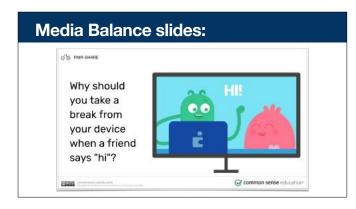
Media Balance slides:







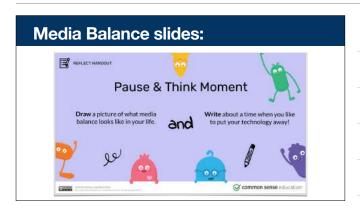








Media Balance slides: Why should you ask permission before taking someone's phone? Common sense education.



So many FREE resources!

- Lesson Slides
- Video: Media Balance Is Important
- Download song: Original, Instrumental
- Sheet Music
- Pause & Think Moment Handout
- Coloring Book
- Poster: Song Lyrics
- Poster: The Digital Citizens
- And more!



Digital Citizen Curriculum

- It goes from Kindergarten through 12th grade.
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 - (Kindergarten, 2nd grade, 7th grade)



We the Digital Citizens (2nd grade)

- Learning Objectives:
 - Understand that being a good digital citizen means being safe and responsible online.
 - Take a pledge to be a good digital citizen.
- Key Vocabulary: digital citizen, pledge

First we would play a song...



Direct links:

- https://www.commonsense.org/education/ digital-citizenship/lesson/we-the-digitalcitizens
- https://youtu.be/-N7IRYMmbXU

We the Digital Citizens slides:



We the Digital Citizens slides:









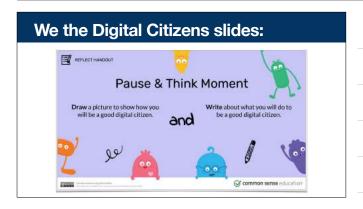
We the Digital Citizens slides: What was one thing you learned from the Digital Citizens?











Digital Citizen Curriculum

- It goes from Kindergarten through 12th grade.
- We will do three together.
 - (Kindergarten, 2nd grade, 7th grade)



The Power of Digital Footprints (7th grade)

- · Learning Objectives:
 - Define the term "digital footprint" and explain how it can affect their online privacy.
 - Analyze how different parts of their digital footprint can lead others to draw conclusions -both positive and negative -- about who they are.
- Key Vocabulary: <u>digital footprint</u>, <u>invisible</u> <u>audience</u>, <u>persistent</u>

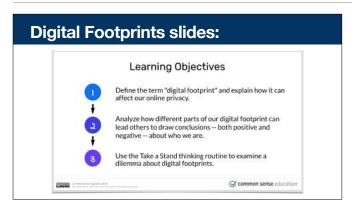
First we would play a song...



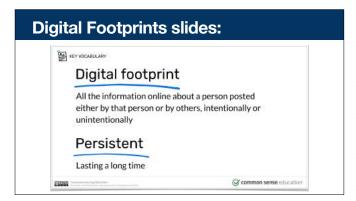
Direct links:

- https://www.commonsense.org/education/ digital-citizenship/lesson/the-power-ofdigital-footprints
- https://youtu.be/eg3gSNgaBm0

Essential Question How might our digital footprints shape our Ruture?

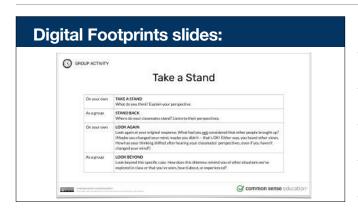














Digital Footprints slides:



Another resource to explore...



https://beinternetawesome.withgoogle.com/en_us/

2 other links to explore:

 https:// resiliencyinitiative.org/ resources/be-a-gooddigital-citizen/



 Here are some key components of good digital citizenship.

#1

2 other links to explore:

- https://safesitter.org/digital-citizenship/
 - Download a helpful infographic PDF file to further the conversation about digital citizenship.



#2

What's the internet without images?

Let's play with photos!

https://www.photofunny.net/



The finished product: §

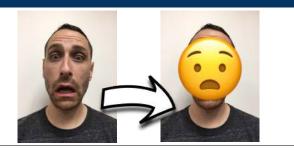
- Lots and lots of possibilities!
- **EMOJI FUN!**
- Super fast.
- · Get creative.
- Open up some great conversations.
- Trigger some laughter.



"What does this mean?"



Facial Expressions



Facial Expressions



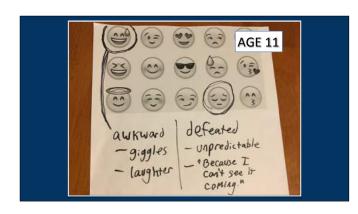
Facial Expressions



"What's an emoji that describes you as a communicator?"

 Use the prompt to see better understand thoughts and feelings.

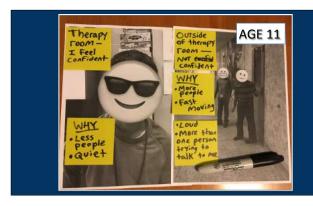




Communication in Different Environments







More ideas...



More ideas...

"Smart like a contestant on Jeopardy!"

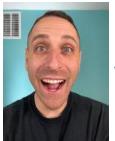


More ideas...

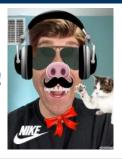


"Rich because knowledge is wealth!"

And you can get REALLY wacky...







10 wacky examples...



What do you think the webs feel like?



 $\frac{https://www.photofunny.net/cat-funny-photo-effects/spiderman-photomontage-comic-cobweb}{}$

10 wacky examples...

What would you and Spiderman do together if you were friends?

> https:// www.photofunny. net/cat-stickers/ spiderman-wallsticker-hooked





10 wacky examples...





How would you life be different if you were Spiderman?

https:// www.photofunny.ne t/cat-stickers/maskphoto-effectspiderman-sticker

10 wacky examples...

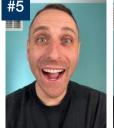


How are Buzz and Woody the same / different ?



https://www.photofunny.net/cat-filmstv/frame-toy-story-dolls-woody-buzz

10 wacky examples...





How does Darth Vader sound?

https:// www.photofunny.ne t/cat-stickers/ sticker-darth-vaderhelmet-mask-photo

10 wacky examples...



Describe your dream cake flavors, toppings, etc.



https://www.photofunny.net/cat-e-cards/ photomontage-birthday-cake-wine-celebration

10 wacky examples...



Write a song about space. Use some rhyming words!



https://www.photofunny.net/cat-funny-photo-effects/photomontage-astronaut-guitar-space

10 wacky examples...





What if your BFF was a monkey? What would you get him for his birthday?

https://www.photofunny.net/cat-e-cards/cumpleanos-mono-funny-party-cards

10 wacky examples...

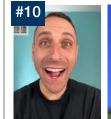


Congrats!
You just
broke a
world
record! Tell
us about it.
Use your
sound...



https://www.photofunny.net/cat-funny-photo-effects/photo-effect-news-tv-breaking-news

10 wacky examples...





Would you rather be a flower in the spring or in the winter? Why?

https://www.photofunny.net/cat-funny-photo-effects/sunflower

https://perchance.org/emoji

Random Emoji Generator

Randomly selects one or more emojis for your enjoyment :)



randomize

unique?

https://perchance.org/emoji











Or maybe we can combine?



Example 1 of 2

Or maybe we can combine?





Example 2 of 2

4 other emoji links to explore:

- https://emojipedia.org/
 - The emoji search engine. A fast emoji search experience with options to browse every emoji by name, category, or platform.





4 other emoji links to explore:

- https:// emojipedia.org/ emoji-wrap/
 - A monthly email and covering all the latest emojirelated topics.



#2

4 other emoji links to explore:

- https://
 podcast.emojiwrap.com/
 - The world's number one emoji podcast. News and commentary on emojis.





4 other emoji links to explore:

https://www.emojidick.com/

 A translation of Herman Melville's Moby Dick into emojis.



#4

What about memes? Meme [meem] SHOW IPA ♠ ☆ See synonyms for meme on Thesaurus.com https://www.dictionary.com/browse/meme noun 1 a cultural item that is transmitted by repetition and replication in a manner analogous to the biological transmission of genes. b a cultural item in the form of an image, video, phrase, etc., that is spread via the internet and often altered in a creative or humorous way.







But before I show you how easy it is...

- Let's look at four SLP-related memes that might make you giggle!
 https://
 - https:// tinyurl.com/ slp-memes





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#2

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 tinyurl.com/

 slp-memes



#3

But before I show you how easy it is...

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 - https:// tinyurl.com/ slp-memes





https://imgflip.com/memetemplates



"Draw a picture of your stuttering."

 Use the prompt to better understand thoughts and feelings.



"Make a meme about your stuttering."

 Use the prompt to better understand thoughts and feelings.











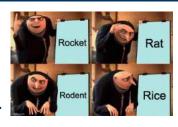






What are some R sentences that are about Gru?

Gru saw a rat. Gru ate some rice.



https://imgflip.com/memegenerator/Grus-Plan

10 other examples...





Describe your dream vacation.
Provide as much detail as possible.

https://imgflip.com/meme/Left-Exit-12-Off-Ramp

10 other examples...

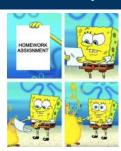


Finish this meme. I did it, I finally... what?



https://imgflip.com/meme/Success-Kid





What was the worst homework assignment you ever received. Why was it so bad?

https://imgflip.com/meme/ 139971723/Spongebob-Burning-Paper

10 other examples...



What other S sentences can you come up with?

https://imgflip.com/meme/But-Thats-None-Of-My-Business



10 other examples...





What if this was your new speech pathologist? How might things be different?

https://imgflip.com/meme/ 313581692/Gentlemen-it-is-withgreat-pleasure-to-inform-you-that

#7

Why is this silly? What are some other silly words you could use?

Example: I wonder if my iPhone is fully charged...

https://imgflip.com/meme/Philosoraptor



10 other examples...



Why is this silly? What are some other silly words you could use?

Example: Mario is the best video game...



https://imgflip.com/meme/126165195/ Sonic-Says

10 other examples...





What if (CELEBRITY NAME) was calling you? Would you pick up? If so, what would you both talk about?

> https://imgflip.com/meme/ 141033994/Incoming-call

#10

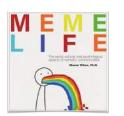
What would your life be like if you lived in this town?



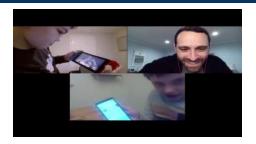


And just in case you love meme stuff, check out this book...

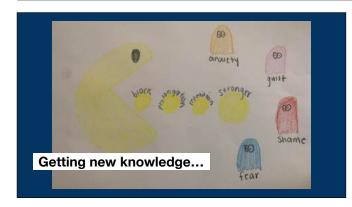
- https://tinyurl.com/meme-life
 - Meme Life The social, cultural, and psychological aspects of memetic communication.
 - Shane Tilton, Ph.D.,
 Associate Professor of
 Multimedia Journalism at
 Ohio Northern University



Video games and children...







Healthy competition between you and your clients...

Keeping track of scores seems to be a motivator for some clients.

Track speech data and track video game scores... this highlights growth!



An important question to ask your clients...

How have you grown? How have you evolved?

But maybe before you ask your clients how <u>THEY</u> have grown and evolved, you can show them something like this...















It all comes back to this question...

How have you grown? How have you evolved?

Your client over time...







10 y/o



"Truest Stutter - It didn't really affect me at all, I didn't do anything to try to hide or stop my stutter. I didn't try to avoid any situations where speaking was involved."

17 y/o



"Avoidance Phase - (1) I would physically try to avoid certain situations and (2) I would try to avoid certain words or add in blocks in place of repetitions because I didn't want to show the stuttering. Blocks were silent therefore that was "better" than the stuttering."

20 y/o



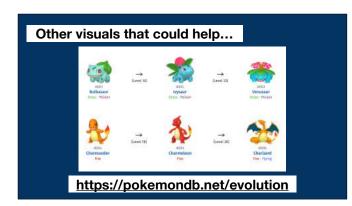
"Improvement Phase - One important part of it is that I started back with speech therapy. I sought it out. This was something I didn't do in the past. Another important part is, I think overall I am trying to become more comfortable with my stutter. Trying not to avoid it. Trying to be more comfortable with it happening."

The visuals help...











It all comes back to this question...

How have you grown? How have you evolved?

Now more than ever, we should have these conversations... (COVID-19)



In closing...

- •The internet and digital technology is <u>here to stay</u>, so let's start to intentionally <u>welcome</u> different bits of them into our therapy experiences.
- •Lots of this stuff are <u>fun</u> and <u>functional</u> tools that are ideal for the work we do.
- •They serve as **valid** talking points.
- •They can be <u>adapted</u> to fit any goal/objective.

Thank you!

Erik X. Raj, Ph.D., CCC-SLP www.erikxraj.com www.slpvideogames.com

