Screen Time Guidelines, Impact on Children, and Alternatives

Newhall Session 2 February 12, 2025







Schools NEXT: Parent Connect

Who are we?

Schools Next: Parent Connect

empowers parents to foster balanced literacy and digital habits that support children's overall cognitive, language, and social-emotional development.



Agenda

- 1. Introductions and Overview
- 2. How we got here: A quick timeline
- 3. Screen Time Use: Digital natives or digital captives?
- 4. Impacts of Screen Time
 - Cognitive Development
 - Social and Emotional Development and Mental Health
- 5. SMART Alternatives
- 6. Next Steps/Practice/Resources





Introductions

Who is in the room?

At your table share...

- 1. Your name
- 2. Ages of your children
- 3. (Fun fact, why did you join today, etc?)





Impact of Screen Time

SCHOOLS NEXT



Positive Impact:

How has technology changed and improved your daily life?





Negative Impact:

What challenges have you faced with the use of technology?





We aren't here because we are not worried. We are here because we are.







SCHOOLS NEXT





1

SCHOOLS NEXT



A Decade of Change

App stores launches (2008)Likes/re-tikes/re-tweets/andtifications-int/2009ced (2009)Forward facings cameras (2010) **(2010) Snapchat emerges** (2011)Infinite sofinite scale baindhalgorith chfeedated feeds introduced into social media (2011-16)Facebook buys Instagram (2012)Smart phones become a majority of phones in US (2015)TikTok available worldwide (2018)Covid 19 hits and the world goes virtual (2019-20)





TV show finales by decade

1983: 105.9 million watched MASH finale

1998: 76.3 million watched Seinfeld finale

2004: 52.5 million watched Friends finale

2019: 18 million watched Big Bang Theory finale





A Decade of Impact

- Technology Use
- Attention Span
- Social Awareness
- Cognitive Processing
- Physical Health, Mental Health & Fitness
- Academic Outcomes
- Fine Motor Skills
- Durable Skills Development





Use of Technology

 Children aged 8-12 spend an average of 4-6 hours per day watching or using screens, while teens spend up to 9 hours per day.

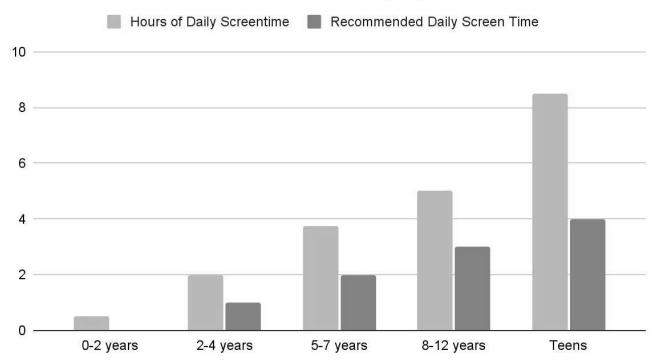
(American Academy of Child & Adolescent Psychiatry, 2020)





Screen Time use by age

Actual vs recommended screen time by age







Smartphone usage

Many parents say their smartphone-using child began engaging with the phone before age 5

Among U.S. parents of a child age 11 or younger who uses a smartphone, % who say their child began engaging with a smartphone between the ages of ...

Age of child 0-2	3-4	5-8	9-11
31	29	26	14
		1	

NET children who began engaging with a smartphone before age 5: 60%

Note: If parent has multiple children, they were asked to focus on one child when answering this question. Those who did not give an answer are not shown. Source: Survey of U.S. adults conducted March 2-15, 2020.

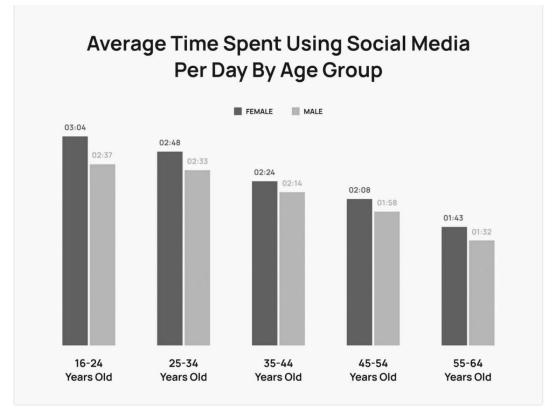
"Parenting Children in the Age of Screens"

PEW RESEARCH CENTER





Social media use by age group







On average...

The average screen time per day for Americans is **7 hours and 3** minutes (backlinko.com Mar 11 2024).

But not all screen time is equally valuable, or has an equal impact on the user. In part because of the content, and in part because of the user.





Impact of Screen Time on Cognitive Development

- Attention Span
- Ability to read for a sustained period





Cognitive Processing

Early Exposure to Screens: Early and excessive screen time can interfere with the development of self-control skills, which are essential for staying focused and completing tasks in the classroom.

Development of Executive Function: The prefrontal cortex, responsible for executive functions like self-control, doesn't fully mature until around age 25. This means many students struggle to focus until their self-regulation abilities develop.



Mark, G. (2023). Attention span: A groundbreaking way to restore balance, happiness, and productivity. HarperCollins.



Cognitive Processes

 High screen time can overload cognitive processes, leading to diminished cognitive control and multitasking ability.

(National Institutes of Health, 2018)





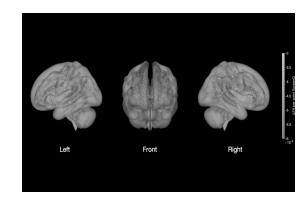
Screen Time and the Brain: An Empirical Study

Study Sample:

- 47 brain-healthy children (27 girls and 20 boys)
- Ages: Pre-kindergarten

Methodology:

- Utilized diffusion tensor imaging (DTI) MRI
- Focus on the brain's white matter, which organizes communication between gray matter regions



Rogers, K. (2019, November 4). Screen time linked to lower brain development in preschoolers, study finds. CNN. https://www.cnn.com/2019/11/04/health/screen-time-lower-brain-development-preschoolers-wellness/index.html





Screen Time and the Brain: Key Findings

White and Gray Matter Explained:

- Gray Matter: Contains the majority of brain cells, directing bodily functions.
- White Matter: Composed of fibers, forming connections (tracts) between brain cells and the nervous system, connecting various brain regions for communication. Lack of development in these "cables" can slow brain processing speed.



Rogers, K. (2019, November 4). Screen time linked to lower brain development in preschoolers, study finds. CNN.

https://www.cnn.com/2019/11/04/health/screen/imePiroco.kamslevelopment-preschoolers-wellness/index.html

Screen Time and the Brain: An Empirical Study

Cognitive Tests:

- Children underwent cognitive assessments before the MRI
- Parents completed a new screen time scoring system by the American Academy of Pediatrics (AAP)

Screen Time Scoring:

- Measures access, frequency, content, and interaction
- Examples include: use during meals, bedtime, type of content, and parental engagement

ent-preschoolers-wellness/index.html





Screen Time and the Brain: Key Findings

Study Results:

- Children exceeding AAP's screen time recommendation (1 hour/day) without parental interaction showed more disorganized, underdeveloped white matter.
- White matter tracts responsible for executive functions were particularly affected, leading to slower cognitive processing.

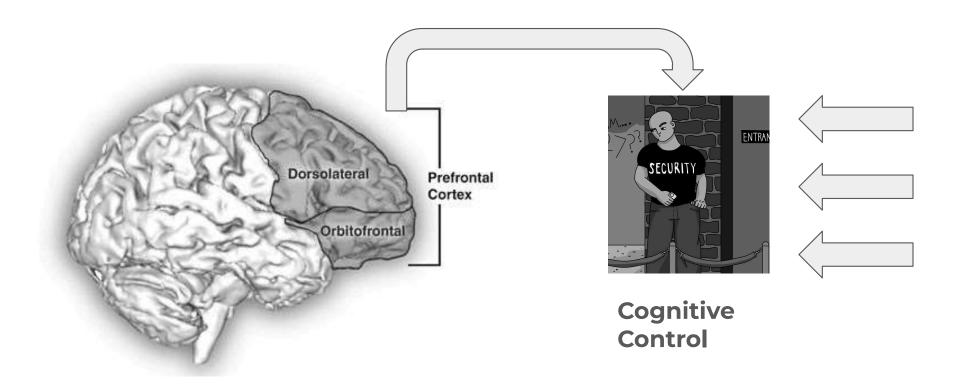


Rogers, K. (2019, November 4). Screen time linked to lower brain development in preschoolers, study finds. CNN. https://www.cnn.com/2019/11/04/health/screen-time-lower-brain-developm

https://www.cnn.com/2019/11/04/health/screen-time-lower-brain-development-preschoolers-wellness/index,html

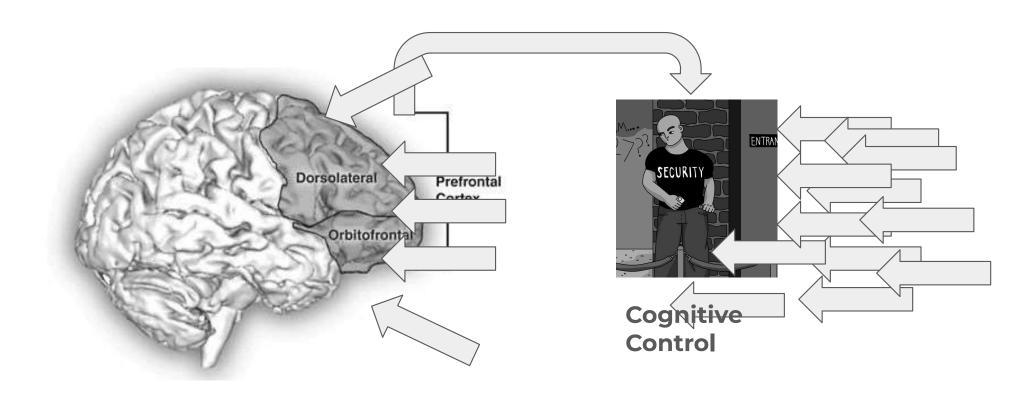
ent-prescribolers-wellness/index.ntml

SCHOOL PROGRAMS



SCHOOLS NEXT





SCHOOLS NEXT



Technology Impact on...

Attention Span

Children who spend...

More than 2 hours a day on screens being 1.6 times more likely to have <u>attention</u> <u>problems</u>."
 (American Academy of Pediatrics, 2016)

More than 7 hours a day are twice as likely to be diagnosed with ADHD.
 (JAMA Pediatrics, 2018)





Impact of Screen Time on Social and Emotional Development and Mental Health

- Social awareness and interaction
- Mental health













What is Social and Emotional Development?

Self-Awareness: Recognizing and understanding one's own emotions.

Self-Regulation: Managing emotions, behaviors, and reactions in different situations.

Social Awareness: Understanding and empathizing with others' emotions and perspectives.

Relationship Skills: Building healthy, positive relationships through communication, cooperation, and conflict resolution.

Responsible Decision-Making:

Making choices that are thoughtful, respectful, and considerate of others.





Social Awareness & Social Interaction

Children who frequently use screens...

- less likely to engage in face-to-face interactions.
 (Developmental Psychology, 2017)
- more likely to struggle with interpreting social cues and engaging in social interactions.

(Pew Research Center, 2018)

SCHOOLS NEXT,



What the research says...

American Academy of Pediatrics (2016): "Excessive screen time can impair the development of critical social skills and emotional awareness in young children."

University of Michigan (2019): "Children who use screens more than 2 hours per day are at higher risk of developing social and emotional difficulties."

Common Sense Media (2021): "Screen time can interfere with face-to-face interactions that are key to emotional development and social understanding."





Limited Face-to-Face Interaction:

Excessive screen time means less in-person socializing, which is crucial for learning empathy, non-verbal communication, and emotional cues.

Difficulty Reading Emotions:

Children who spend a lot of time on screens may struggle to interpret facial expressions or tone of voice, which can affect relationships with peers and adults.

Lower Emotional Intelligence:

Social interactions help build emotional intelligence. Without regular practice, kids may find it harder to express their feelings, recognize others' emotions, or cope with stress.

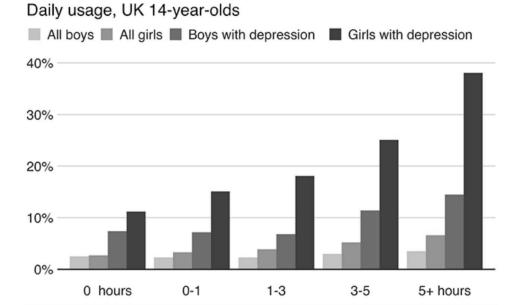
Increased Social Isolation:

Over-reliance on technology may lead to social withdrawal and a lack of confidence in social settings.

SCHOOLS NEXT



Children's use of social media and depression



BBC

SCHOOLS <u>NEXT</u>

Source: University College London

While our children may not feel it, the research is clear and the link is staggering.



Mental Health

High Screen time linked to...

- Experiencing symptoms of depression, anxiety, and other mental health issues. (National Institute of Mental Health, 2018)
- Increased feelings of **loneliness** and social isolation among adolescents. (Journal of Adolescence, 2019)





"Compulsive usage correlates with a slew of negative mental health effects like loss of analytical skills. Memory formation, contextual thinking, conversational depth, empathy and increased anxiety" ... in addition to "interfering with essential personal responsibilities like sufficient sleep, work school responsibilities and connecting with loved ones."



Internal Tik Tok Report After Babel. (2022, December 20). Industrial-scale harm. After Babel.

https://www.afterbabel.com/p/industrial-scale-harm-tiktok

SCHOOL PROGRAMS

"Minors do not have executive function to control their screen time"



Internal Tik Tok Report After Babel. (2022, December 20).

Industrial-scale harm. After Babel.

https://www.afterbabel.com/p/industrial-scale-harm-tiktok



"Tiktok is particularly popular with younger users who are particularly sensitive to reinforcement in the form of social reward and they have minimal ability to self-regulate"



Internal Tik Tok Report After Babel. (2022, December 20).

Industrial-scale harm. After Babel.

https://www.afterbabel.com/p/industrial-scale-harm-tiktok

RISE SCHOOL PROGRAMS

"Meta has researched how to attract users as young as the age of 4"



Industrial-scale harm. After Babel. https://www.afterbabel.com/p/industrial-scale-harm-tiktok



S Social Interaction

M Moderation

A Alternatives

R Role Model

T Tool

SCHOOLS <u>NEXT</u>



Reducing Screen Time

- Determine how much screen time you will allow
 Use parental control apps such as the *Screentime
 App to monitor and manage
- Be clear and consistent about expectations
- Lock computers and check phones at the door
- No devices in bedrooms or at meals
- Be a role model





Alternatives to Screen Time

- Create appropriate tasks that earn screen time (after school responsibilities/chores)
- Active or creative play (playing outdoors, riding bikes, scooters, make believe play, dress-up, etc)
- Stock up on art supplies (have a box ready with a variety of supplies)
- Carry a pen and pencil wherever you go
- Allow for boredom (stock up on board games and puzzles)
- Institute electronic sabbaticals





More Alternative Ideas

- Reading, Storytelling, Visit the Library Regularly
- Music, Karaoke, Dancing
- Building and Construction (blocks, legos, cardboard boxes, etc)
- Pets and Animal Care
- Sensory Play (sensory bins and Playdough or Air Dry Clay to sculpt and create with hands-on materials)



Grow Creative



Parent to Parent...

- Don't fall for false choices
- The R might be the most important part of SMART





Self Reflection & Practice:

Take a few moments and think about about how many hours you spend a day on your phone/iPad/computer doing tasks listed...





Technology Use Tracker

Technology Use Tracker

Task/Activity	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Watching videos (YouTube, Netflix, etc)							
Social Media (Instagram, Facebook, TikTok, etc)							
Video games					I I	•	
Educational apps or websites							
Homework or school-related activities							

Next Steps: Bridge to Practice

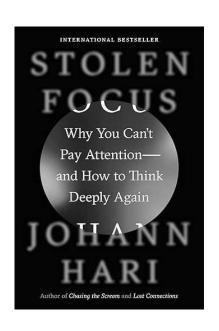


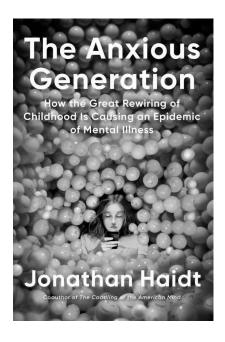
- Continue to journal and reflect on how much time you spend on your devices.
- 2. Start tracking how your child (children) spend on their devices:
 - a. How are they using technology?
 - b. Which websites/apps are they using?
 - c. What kind of activities are they doing?
 - d. How much time do they spend?

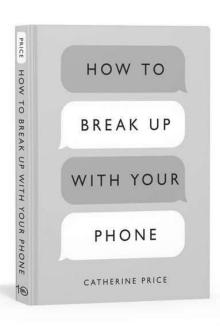




Resources











Additional Resources

Frank on podcast with Schools Next Partner Gene Tavernetti: https://share.transistor.fm/s/065863ad

Industrial-scale harm. https://www.afterbabel.com/p/industrial-scale-harm-tiktok

Gen Z, Social Media is Optional. https://www.afterbabel.com/

Are You Struggling with Your Own Screen Time? https://www.afterbabel.com/





Schools Next

If you would like to receive a View-Only copy of the presentation, please email:

Support@Schoolsnext.org





"Not everything that is faced can be changed, but nothing can be changed until it is faced."

James Baldwin





Closing

SCHOOLS NEXT



Reflections



What are some big takeaways from today's session?

SCHOOLS NEXT

