

Technology and Digital Media in the Early Years: Myths, Provocations and Nudges

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It depends... I
wonder... Seeking
to understand
what is wonder
full and what we
still need to
wonder about







Our context: Analog adults in the digital age



We live in a society exquisitely dependent on science and technology, in which hardly anyone knows anything about science and technology.

Carl Sagan, astronomer









- 2012, NAEYC & Fred Rogers Center joint position statement on *Technology and Interactive Media* as Tools in Early Childhood Programs Serving Children from Birth through Age 8
- Reports, guidelines, position statements from Rand Corporation (2014), Zero to Three (2014),
 American Academy of Pediatrics (2016), U.S. Departments of Education & Health and Human
 Services (2016) Common Sense Media (2017)



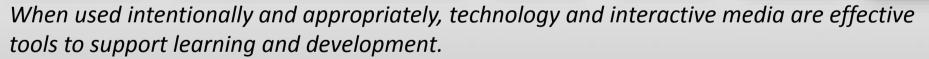












NAEYC & Fred Rogers Center, 2012















What have we learned since 2012?

- Physical Activity/Movement, Sleep and Sedentary Guidelines from Australia, Canada, New Zealand (2017)
- Sedentary Behaviors in Today's Youth,
 American Heart Association (2018)





AHA SCIENTIFIC STATEMENT

Sedentary Behaviors in Today's Youth: Approaches to the Prevention and Management of Childhood Obesity

A Scientific Statement From the American Heart Association









What are we learning this year?



2018, Early Childhood Australia Statement on young children and digital technologies, 2018, September



• 2018, Common Sense Media. How Tech is Changing Childhood: And What We're Doing About it



2018, Zero to Three, Screen Sense: Setting the Record Straight. Research-based guidelines for screen use for children under three years old



• 2018, Global Family Research Project and Carnegie Corporation of New York. Joining Together to Create a Bold Vision for Next Generation Family Engagement: Engaging Families to Transform Education







What are we learning this year?

• 2018, American Academy of Pediatrics, *The Power of Play: A Pediatric Role* "prescription" for play

...real-time social interactions remain superior to digital media for home learning.

• 2018, Lego Foundation, Play Well Report 2018

Children are pioneering "fluid play" where they naturally engage in play seamlessly blends real world, imaginary and digital play

• 2018, Designing for Children Guide

Integrating children's (0-18) rights and ethics into the heart of the design process













Moving from myths to truths and nudges

- The iPad will destroy childhoods
- All screens are created equal
- Children are the future
- Technology use is isolating and interferes with social and emotional development
- Grown-ups are managing their media well
- Educators lack the knowledge, skills and experiences to be role models and media mentors









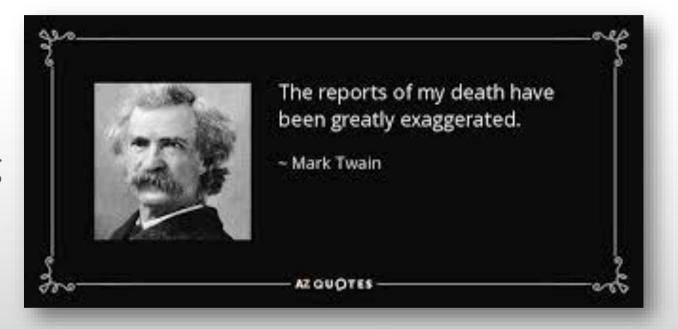






Despite claims to the contrary, the iPad hasn't killed...

- ✓ Childhood
- ✓ Social interactions
- ✓ Play
- ✓ Hands-on learning
- ✓ Outdoor time









We now have consensus on what matters most



- Early childhood "essentials" are non-negotiable
- 3Cs Content, Context, Child
- Creating media and storytelling
- Relationships
- Family engagement
- Media mentors















We need more research to know



Children are growing up in an "always on" digital culture

- What do we know about evidenced-based and developmentally-informed benefits or harms?
- How does 40+ years of television research inform children's use of digital devices?
- What are the implications of children using technology tools that were designed for adults iPhone, iPad, Alexa?
- What do we need to know about digital well-being for young children and their families?

How do we move from screenworried to screenwise?







All screens are created equal













Laptop and desktop

• Smartphone

Tablet with apps







Wearable





The magic is in the child, not in the device. Gail Lovely

















Avoid the either/or false dichotomy

- It's not all tech or no tech
- It's not tech or play it can be digital play
- It's not tech or nature it can be digital nature
- It's not tech in preschool or virtual preschool











Understand beneficial screentime











- Active not passive or sedentary
- Interactive not isolating
- Inclusive not exclusive
- Enhancement not displacement
- Meaning making not meaningless
- Creation not consumption
- Tool for learning not teaching

















Children are the future

Children are here right now. Wonderful todays = future-ready kids

- Communicating
- Collaborating
- Critical thinking
- Problem-solving / Solution-seeking
- Decision making
- Planning and reflecting
- Creative thinking





Children are people. They grow into tomorrow only as they live today. John Dewey









Children need 21st ANY century dispositions

- Playing well with others
- Demonstrating self-awareness
- Being adaptable
- Being persistent and resilient
- Knowing they're smarter than the tech

Rather than pushing children to think like adults, we might do better to remember that they are great learners and to try harder to be more like them." Seymour Papert

















Give children tech tools to show you what they know



Affordances of multi-touch devices

- Collect and curate artifacts
- Document experiences
- Share what you're learning
- Take photos
- Record audio
- Shoot videos

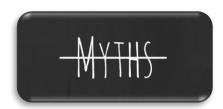
- Animate
- Make, tinker, build
- Code
- Create art
- Write music
- Tell your story
- Revisit



Easy enough for an adult to do.
Gail Lovely







Technology use is isolating

- The "how much" and "passive" use screentime debates
- Inappropriate content and commercial messages, safety concerns (Advertising in Young Children's App: A Content Analysis)
- Displacement/replacement of developmentally essential activities
- Negative impact on social-emotional development
- Negative impact on health and well-being
- Increased sleep disruptions and lack of quality sleep



Spend less time monitoring and more time mentoring.

Devorah Heitner,

Screenwise









Relationships matter most

- Young children learn best in the context of interactions and relationships with attentive, responsive, caring adults
- Use tech to promote healthy social and emotional development
- Using media together leads to more learning

Enjoy Screens. Not too much. Mostly with others. Anya Kamenetz, The Art of Screen Time





nudge

Use <u>interactive</u> media that invites and encourages <u>interactions</u> with others

















Grown-ups are managing their media well

Do you ever feel digitally preoccupied, distracted, dependent, disconnected, isolated, ignored?



- Are we paying (enough or too much) attention to unintended consequences?
- Children's are confused when screen time rules for grown-ups are different than for children
- From Do as I say, not as I do to Do as I say and as I do







The more you connect the less you connect

- Remember that young children learn media habits from the adults in their lives
- Reimagine the screentime debate as an adult issue first
- Develop the capacity in adults to become mindful media mentors





"Connection is inevitable, distraction is a choice." Alex Soojung-Kim Pang, The Distraction Addiction





nudge Learn to live well with media







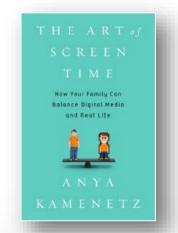




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Anya Kamenetz, The Art of Screen Time

Our focus should be on living well with media rather than opposing or restricting it. Dr. Michael Rich, The Mediatrician, Boston Children's Hospital











Educators lack the knowledge, skills and experiences to be role models and media mentors in the digital age





Early childhood educators are not unequipped but often feel ill-equipped to select and use new technology and digital media for young children.

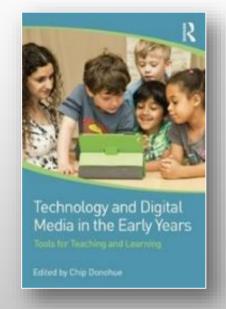






nudge Start with what you know

- Know what matters and apply what you know
 - Child development theory, DAP, the whole child and SEL
 - Family, culture and community contexts
 - Principles and guidelines from the field 2012-2018
 - 40+ years of children's media research
 - Best practices in teaching, learning inform technology integration
- Become a 21st century learner to become a 21st century teacher
- Become a connected educator use tech to learn how to use tech









nudge Be a media mentor

- Every child needs a media mentor
- Every parent/family needs a media mentor
- Every educator needs to be a media mentor
- Who mentors the mentors?

...as much as media mentors are needed for families, they are also needed for teachers. Lisa Guernsey & Michael Levine, 2016



























4. Use tech as another tool

5. Empower children to use technology as tools for 21st century learning

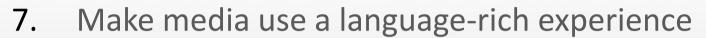


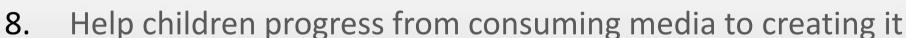




Chip's tips for educators as media mentors









10. Be a media mentor to children and grown-ups







A final provocation What is essential is invisible to the eye





...Let's not get so fascinated by what the technology can do that we forget what it can't do...It's through relationships that we grow best and learn best. Fred Rogers







Myths, Provocations, Nudges

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Technology in Early Childhood

Photos courtesy of Google Image Search, Fred Rogers Center, Fred Rogers Company, Erikson Institute, TEC Center, NAEYC, Early Learning Community at Pacific University, Burley Elementary School, Ravenswood Elementary School, Gail Lovely, University of Maine Center for Community Inclusion and Disability Studies, Cassandra Mattoon and Chris Crowell

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