ICT AND INTERNET USAGE IN EARLY CHILDHOOD EDUCATION



LEARNING OUTCOMES

IN THE END OF THIS TOPIC, STUDENT SHOULD BE ABLE TO

- Explain the advantages of internet usage in ECE
- Explain the disadvantages of internet usage in ECE
- State the websites that related to ECE
- Planning attractive activities based on internet resources in teaching and learning ECE



The amount of technology Used by children. * Children spend an average of seven hours a day using screen

Media, including one to two hours a day for those under age two.

Ninety percent of parents report that children below age two watch some form of electronic media.



The amount of technology used by children.

* While some studies report children aged two to four average two hours a day of screen time (Ride out, 2011), other research finds children aged two to five years spend more than 32 hours a week in front of a screen (McDonough, 2009). "For many children, this is more time than they spend in any other activity except sleeping" (Levin, 2013, p. 13).

The amount of technology used by children.

➤ Fifty-two percent of children aged birth to eight have access to a smart phone, tablet, or similar electronic device (Guernsey, 2012).





How technology is used by children.

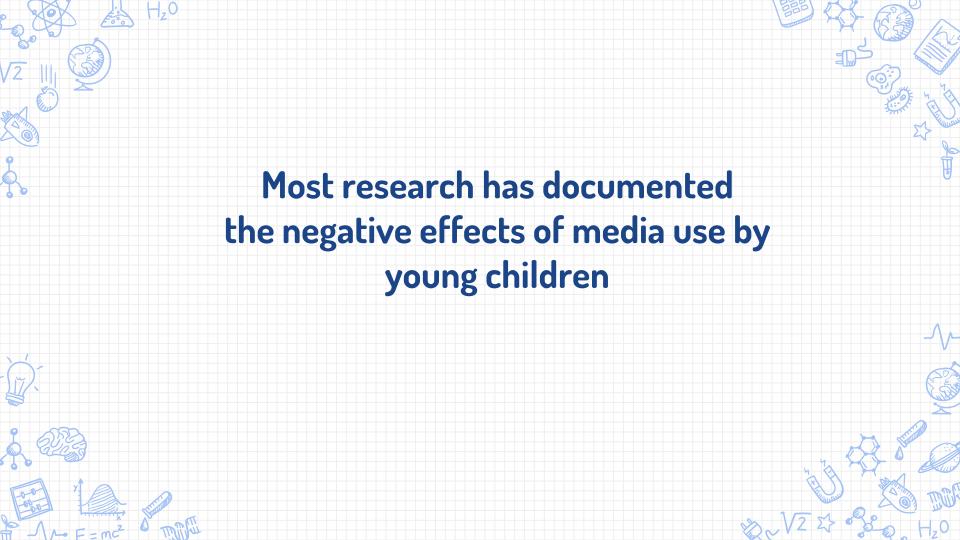
➤ Most parents admit to using screen time as a distraction, peace keeper, or babysitter while adults do household chores (AAP, 2011).

➤ Technology is only effective when teachers mediate its use with the same developmentally appropriate practices they apply to any other type of learning experience (Plowman & Stephen, 2005; 2007).

How technology is used by children.

➤ Educational content matters at least as much as format (Wainwright & Linebarger, 2006). For example, interactive literacy programs appear to foster early reading skills while those that use drill-and-practice techniques do not (Corporation for Public Broadcasting, 2011).





➤ For children below age two, media exposure has been associated with language delays (Linebarger & Walker, 2005).

➤ For preschool and school-aged children, media use has been associated with physical, behavioral, and mental health problems, including obesity, poor sleep habits, aggressive behavior, and attention disorders (Nunez-Smith, Wolf, Huang, Emanuel, & Gross, 2008).



➤ The more time children under age fi ve spend with media, the less they interact with others (siblings, parents, peers) and the less creative their play (Vandewater, Bickham, & Lee, 2006).



➤ For children aged one to three, background television reduces the amount of time they play and diminishes their focused attention when they do play (Schmidt, Pempek, Kirkorian, Lund, & Anderson, 2008).



➤ Children in households with heavy media use (that is, where the television is on all or most of the time) are read to less often (25 percent less for three- to four-year olds and 38 percent less for five- to six-year-olds) than in other households with low or moderate media use (Ride out & Hamel, 2006).

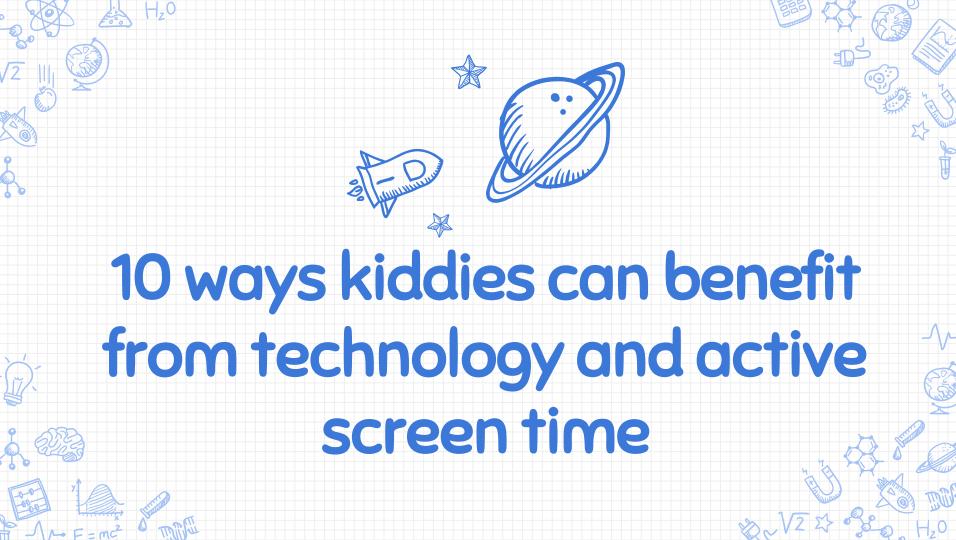


* "Active, appropriate use of technology and media can support and extend traditional materials in valuable ways ... both cognitive and social" (NAEYC & The Fred Rogers Center, 2012, p. 7). For example, computers allow young children to manipulate shapes (mathematics) with greater dexterity than they can manage by hand and often promote collaborative (social) problem solving (Clements, 2002).

Top Early Childhood Education Websites

- **✗** Teach Preschool
- ✗ Wise Owl Factory
- **X** PreKinders
- X The First Grade Parade
- **✗** Miss Kindergarten
- **✗** Erica's Ed-Ventures
- X Let the Children Play
- ✗ Kindergarten Lifestyle
- ✗ Kindergarten Kindergarten





Better Hand-eye Coordination





Improves Language Skills





Promotes School Readiness and Cognitive Development



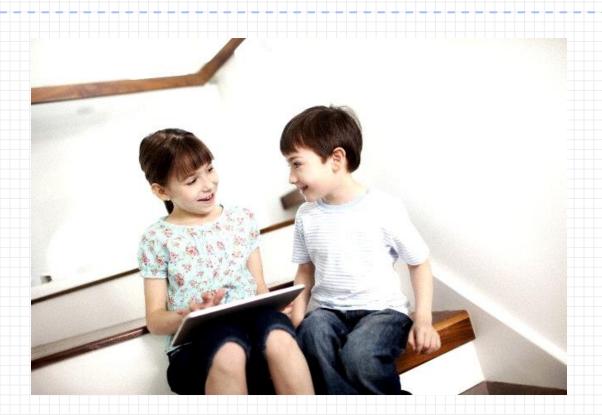


Higher Capacity for Visual Attention





Enhances Social Interaction Skills





Increases Motivation to Complete Tasks





More Dynamic Spatial Skills





Develops Problem Solving Skills



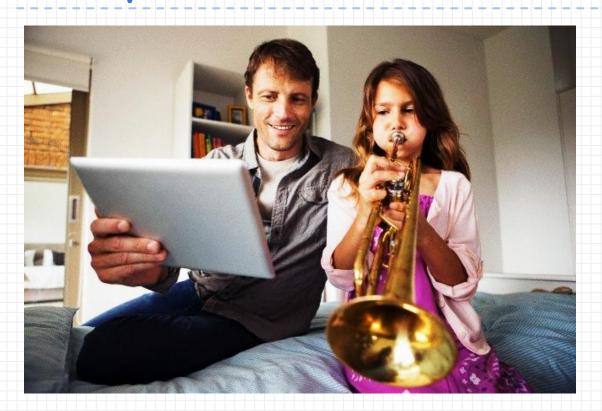


Expands Horizons





Develops Skills and Talents





Advantages of Internet on children

- 1) Information on almost every subject imaginable.
- 2) Powerful search engines
- 3) Ability to do research from your home versus research libraries.
- 4) Information at various levels of study. Everything from scholarly articles to ones directed at children.
- 5) Message boards where people can discuss ideas on any topic. Ability to get wide range of opinions.

People can find others that have a similar interest in whatever they are interested in.



Advantages of Internet on children

- 6) The internet provides the ability of emails. Free mail service to anyone in the country.
- 7) Platform for products like SKYPE, which allow for holding a video conference with anyone in the world who also has access.
- 8) Friendships and love connections have been made over the internet by people involved in love/passion over similar interests.
- 9) Things such as Yahoo Answers and other sites where kids can have readily available help for homework.
- 10) News, of all kinds is available almost instantaneously. Commentary, on that news, from every conceivable viewpoint is also available



Disadvantages of Internet on children

- 1) There is a lot of wrong information on the internet. Anyone can post anything, and much of it is garbage.
- 2) There are predators that hang out on the internet waiting to get unsuspecting people in dangerous situations.
- 3) Some people are getting addicted to the internet and thus causing problems with their interactions of friends and loved ones.
- 4) Pornography that can get in the hands of young children too easily.
- 5) Easy to waste a lot of time on the internet. You can start surfing, and then realize far more time has passed than you realized. Internet and television together of added to the more sedentary lifestyles of people which further exacerbates the obesity problem.



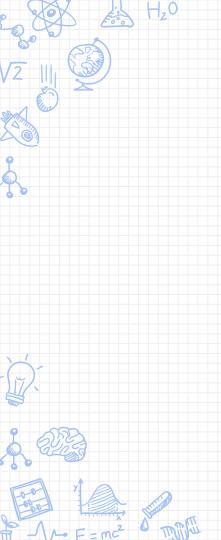
Disadvantages of Internet on children

- 6) Internet has a lot of "cheater" sites. People can buy essays and pass them off as their own far more easily than they used to be able to do.
- 7) There are a lot of unscrupulous businesses that have sprung up on the internet to take advantage of people.
- 8) Hackers can create viruses that can get into your personal computer and ruin valuable data.
- 9) Hackers can use the internet for identity theft.
- 10) It can be quite depressing to be on the internet and realize just how uneducated so many people have become in today's society

Plan two
attractive
activities based
on internet
resources in
teaching and
learning ECE









THANKS! Any questions?

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