¡Exploration: Using an iPad for Vision Stimulation

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Perkins Webinar
Wednesday, May 22, 2013
Infant & Early Childhood Program
iPad Pilot Program

- 60 children
- Similar disabilities
- 100% of children made progress
Areas Covered

- Length of Engagement
- Communication
- Visual Attentiveness
- Reaching
- Activation
- Parent Interaction
Results - Length of Engagement

1 - 0-5 minutes
2 - 5-10 minutes
3 - 10-15 minutes
4 - 15-20 minutes
5 - 20-25 minutes
6 - 25-30 minutes
Results - Communication

1 - Non Responsive (no response at all)
2 - Increased Body Movement (breathing changes, eyes widening, smiling, etc.)
3 - Actual Sounds - Vocalization (babbling, cooing, laughing, etc)
4 - Vowel sounds
5 - Clear Verbal Communication (Combination of Vowels to make a word)
Results – Visual Attentiveness

1 - Non Responsive (No Visual Attentiveness)
2 - Somewhat Responsive (Momentary focus and exploring contents on screen)
3 - Responsive (tracking items on screen horizontally and vertically)
4 - Increased Response (Increase in amount of attention to activity on screen)
5 - Fully Responsive (engaged and fully attentive to activity on screen)
Results - Reaching

1 - No Response
2 - Some increased hand movements.
3 - Reaching Out (No direction intended)
4 - Hand movements in direction of desired object
5 - Full reaching to desired object (Grasping and/or landing hand on desired object)
1 - No Reaction
2 - Activating Object without specific purpose (10-20% of the time)
3 - Activating Object without specific purpose (20-40% of the time)
4 - Activating object with purpose half of the time.
5 - Fully engaged in meaningful activity with object.
Results - Parent Interaction

Cycle 1

Cycle 2
Advantages of the iPad

- Size
- Weight
- Immediate response
- Multiple programs
- Portability
iPad

The following accessories are included with iPad:

- 10W USB Power Adapter
- Dock Connector to USB Cable
Applications in our curriculum

- Baby Finger HD
- Bubbles Magic
- Kids Song Machine HD
- Baby’s Musical Hands
- Infant Visual Stimulation
- Talking Larry the Bird for iPad
Baby Finger HD

Description:

Baby Finger is your baby's best friend!

Every tap of a finger will bring a world of surprise!

- Immediate feedback
- Various colors and shapes
- Integration of sound
- White background

Free
Category: Education
Updated: Dec 21, 2010
Version: 1.1
Size: 18.9 MB
Language: English
Seller: Dong Jin Kim
© brainworx
Rated 4+
Bubbles Magic

Description:

Pop! Pop! Pop! Create gorgeous bubbles with your fingers and tap to pop. Delights children of all ages or use it to distract your baby or toddler when you need a few moments of peace.

$2.99
Category: Entertainment
Updated: Dec 28, 2010
Version: 1.3
Size: 6.6 MB
Language: English
Seller: Squishy Things Inc.
© 2010 Squishy Things Inc.
Rated 4+
Kids Song Machine HD

Description:
The best gift for your children: KIDS SONG MACHINE! A fun musical application, that is both stimulating and educational, it’s guaranteed to keep your children entertained for hours.

• Immediate feedback
• Use of familiar Children’s Music – use in other activities
• Dynamic color

$2.99
Category: Education
Updated: Oct 04, 2011
Version: 1.0.7
Size: 33.0 MB
Languages: English, Spanish
Seller: Genera Games
© Genera Interactive
Rated 4+
Baby's Musical Hands

Description:

Baby's Musical Hands is an award-winning musical toy for babies and toddlers for the iPad, iPhone, and iPod touch.

$0.99
Category: Games
Updated: Sep 06, 2012
Version: 1.2
Size: 1.5 MB
Language: English
Seller: Streaming Colour Studios
© 2011 Streaming Colour Studios
Rated 4+

- Immediate feedback
- Simple layout of 15 boxes
- Integration of different sounds in each box
- Bursts of light with every touch
Infant Visual Stimulation

Description:
Infant visual stimulation is one of the best apps for babies and newborns. It contains high contrast pictures in flashcard format, especially developed for newborns and babies. It provides visual stimulation to help with your child’s development.

$2.99
Category: Education
Updated: Jan 04, 2013
Version: 2.0
Size: 38.0 MB
Seller: Chang Liu
© 2012 Think Design Studio LLP
Rated 4+
Talking Larry the Bird for iPad

Description:
Talking Larry the Bird is your whistling and talking bird friend. Play the piano keyboard and make Larry whistle a perfect tune. Say anything and Larry will repeat.

$2.99
Category: Entertainment
Updated: Feb 16, 2012
Version: 2.0
Size: 19.7 MB
Seller: Out Fit 7 Ltd.
© Out Fit 7 Ltd.
Rated 4+

• Immediate feedback
• Application listens and repeats sounds
• Use of touch to interact with bird
• Moving bird for tracking
Top Applications

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Rated 4+
Brody - 6 months

- Diagnosis - Optic Nerve Damage
- Prenatal Intracranial Damage
Andy - 23 months

- Diagnosis - Hypoxic Encephalopathy
- Suffers from Seizures
Jonathan - 26 months

- Diagnosis - VACTERL Syndrome
- Hearing Impairment and Developmental Delays
How do we rate our applications?

- Response time
- Color and contrast
- Shapes
- Sound feedback
- Ease of use
- Use of motion for tracking
How do we choose our applications?

- Diagnosis
- Goal-Oriented
- Preference
- Interactivity – (Active/Inactive)
- Purchased Apps – No Ads
iPad Curriculum DVD

- 12 videos
- In-depth information about our study

for more information

www.juniorblind.org
Questions & Comments