



Michigan AAC Conference

## Using Switches with the iPad

Jamie Munro – Information Director

12:15 pm Thursday May 14th 2015

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## Switches and The iPad

- **Two Levels of Switch Access**
- **Complete Switch Access**
  - Using Switch Access built in to IOS
  - Can use one, two or more switches
  - Controls desktop and most Apps
  - Requires good cognitive skills
  - Requires good switch skills such as timing
- **Apps with Switch Access**
  - Cause and effect to simple choice making
  - Simple AAC
  - Lower cognitive levels and switch skills



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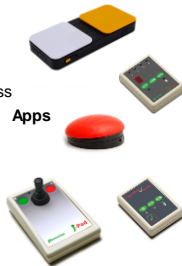
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## Connecting Switches to the iPad

- **Range of Switch Interfaces Available**
  - Connect to iPad via Bluetooth
  - Work with iOS Scanning
  - Work with Apps with built in switch access
- **Keystrokes to Operate Switch Accessible Apps**
  - No agreed standard for keystrokes
  - Space/Enter, 1/3 and Tilde1/Tilde3
  - Others may be used
  - Interfaces have to be programmable



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## Connecting Switches to the iPad

- **Blue2 Switch**
  - Connect via Bluetooth
  - Three Pre-defined modes to work with switch ready Apps
  - Three additional modes for user defined switch control
  - Works with IOS Switch Access
  - Rechargeable
  - Two built-in switches or wired switches.
  - Toggle to give access to on-screen keyboard



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## iPad Accessibility

- **What's in the IOS (7 and 8)**
  - Accessibility Shortcut
    - Turn on/off accessibility settings by triple clicking the Home Button



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## iPad Switch Access

- **Switch Control**
  - Add switches
  - Define what they do
  - Set up single switch and multi-switch scanning



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## Connecting Switches to the iPad

- **APPLICATOR for iPad**

- Connects via Bluetooth
- Connect up to four standard switches (3.5 mm jack)
- Built-in display to select the function of each switch
- Choice of 22 mouse/keyboard commands
- Press the virtual keyboard
- Press the Quick Media button for preconfigured access to play/pause, skip forward and back and Timed Play (10 seconds)



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## Connecting Switches to the iPad

- **SimplyWorks for iPad**

- Connects via Bluetooth
- Connect up to 6 SimplyWorks transmitters
- Works up to 10 metres from transmitter



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## Connecting Switches to the iPad

- **it-Switch**

- Low slanted profile
- Four colours
- 125 mm or 75 mm operating area
- Choose switch function via built in digital display



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## Connecting Switches to the iPad

- **it-Send**
  - Plug in any switch with 3.5 mm jack
  - Choose switch function via built in digital display
  - Send to any Simply Works receiver
  - Choose switch function via built in digital display



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## Alternative Input for Your iPad Switch Interfaces

- **iSwitch**
  - 75mm diameter switch.
  - Includes 24 pre-programmed functions.
  - Programmable ports for two additional wired switches



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## Alternative Input for Your iPad Switch Interface and Case

- **Connect**
  - Case with built in rechargeable amplifier
  - Two built in capacitive touch switches
  - Two built in switch ports
  - Works with AbleNet wireless switches
  - 3 switch modes - Space/Enter, 1/3 and ~1 and ~3



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# Switch Progression Road Map

- Draws together over ten years of best practice research and classroom observations from around the world
- A comprehensive teaching and assessment document you can use every day
- Details every stage of switch skills acquisition from cause and effect to confident scanning



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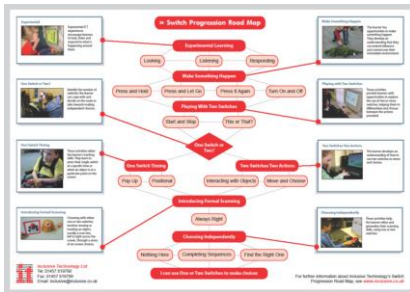
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# Switch Progression Road Map



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# Make Something Happen Press and Press Again

- Big Bang Patterns
- Big Bang Pictures
- Sensory Room (free)



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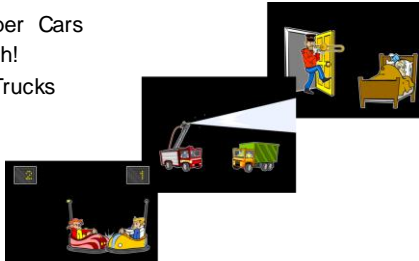
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## Two Switch Play – This or That?

- Bumper Cars
- Shhhh!
- Big Trucks



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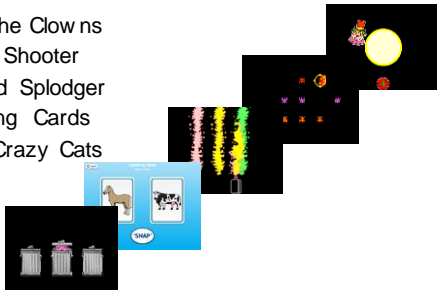
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## One Switch Timing Positional and Popup

- Splat the Clowns
- Space Shooter
- Custard Splodger
- Matching Cards
- More Crazy Cats



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## Simple Switch Games

- Little Lost Penguins
- Jungle Adventure
- Hurdle Champion
- New Age Curling
- Train Tracker



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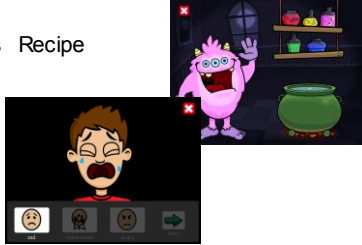
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## Introducing Scanning Always Right

- Smarty Pants
- Aunty Maggie's Recipe



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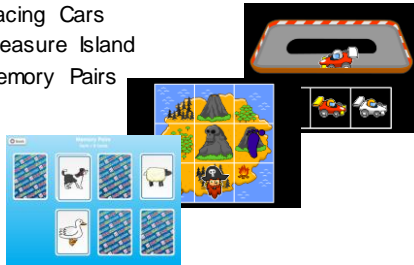
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## Choosing Independently Nothing Here, Completing Sequences and Find the Right One

- Racing Cars
- Treasure Island
- Memory Pairs



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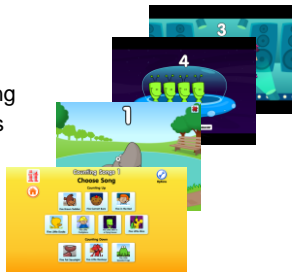
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## Apps for Special Needs Simple Number Activities

- Counting Songs 1
- Counting Songs 2
- Five Sharks Swimming
- Five Little Rock Stars
- Five Speckled Frogs
- Five Wicked Witches



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## Choosing Independently Find The Right One

### • ChooseIt! Apps

- Based on BETT Award winning ChooseIt! Ready Mades
- 1000s simple multiple choice activities



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## Choosing Independently Find The Right One

### • ChooseIt! Literacy

- Activities are structured to support the Primary National Strategy, Letters and Sounds. A collection of 250 activities with over 5,000 pages
- Listening Skills
- Initial Letters
- Initial Blends: Letters
- Initial Sounds
- Initial Blends: Sounds
- Alphabet
- Everyday Words
- Tricky High Frequency Words



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## Choosing Independently Find The Right One

### • ChooseIt! Science

- Activities map directly to Foundation Stage Knowledge and Understanding of the World, and National Curriculum Key Stages 1 and 2. With over 160 activities and 3,000 pages.
- Foundation Living Things
- Materials
- Light, Sound and Space
- KS1 Living Things
- Forces and Electricity



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## Choosing Independently Find The Right One

• **ChooseIt! Numeracy**

- Activities map directly to Foundation Stage, P-Scales or National Numeracy Strategy Targets. A collection of over 230 activities with over 6,000 pages
- Early Number
- Number 0 – 5
- Number 5 – 10
- Number 0 – 100
- Foundation Shape, Space and Measure
- Key Stage 1 Shape, Space and Measure
- Time
- Money



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## Choosing Independently Find The Right One

• **ChooseIt! Apps**

- Activity reporting
- How long activity has been running for
- Number of questions answered
- Number of questions answered correctly on first attempt
- Summary of performance
- Percentage bar based on current score
- Results can be printed, saved or emailed



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## Introducing Scanning and Choosing Independently



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## Introducing Scanning and Choosing Independently

- **Chooselt! Maker 3**
  - Cause and effect activities
  - Matching activities
  - Choice boards
  - Literacy activities
  - Comprehension assessment
  - Question and answer activities
  - Games
  - Quizzes and more...



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## Introducing Scanning and Choosing Independently

- **Chooselt! Maker 3 App**
  - For iPad and Android
  - Free
  - Progression and Achievement Recording
  - Downloaded activities work off line



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## Alternatives to the iPad?

- **Android Tablets**
  - World's best selling mobile smartphone platform (300 million devices February 2012)
  - 62.6 percent of the tablet market
  - Open source so not tied to any manufacturer
  - Available in range of form factors (such as Kindle Fire, Tesoo Hudl)
  - Apps available from a number of App stores



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## Connecting Switches to Android

- **Android Specific Interfaces beginning to appear**
  - Receive Micro
  - Requires Android Tablet with powered USB port
- **May work with iPad Bluetooth Interfaces**
  - Model dependant
  - Some functions may not be applicable
- **May work with Windows USB Interfaces**
  - Will require an adaptor from standard USB to min or micro USB
  - Only those without software drivers



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## Alternatives to the iPad?

- **Windows 8 Tablets**
  - Metro Interface
  - Designed specifically for tablets
  - Run existing Windows software
  - Windows Apps through Windows App Store
  - Connectivity to existing peripherals such as external storage devices and input devices



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