iPad Integration for Student with Exceptionalities

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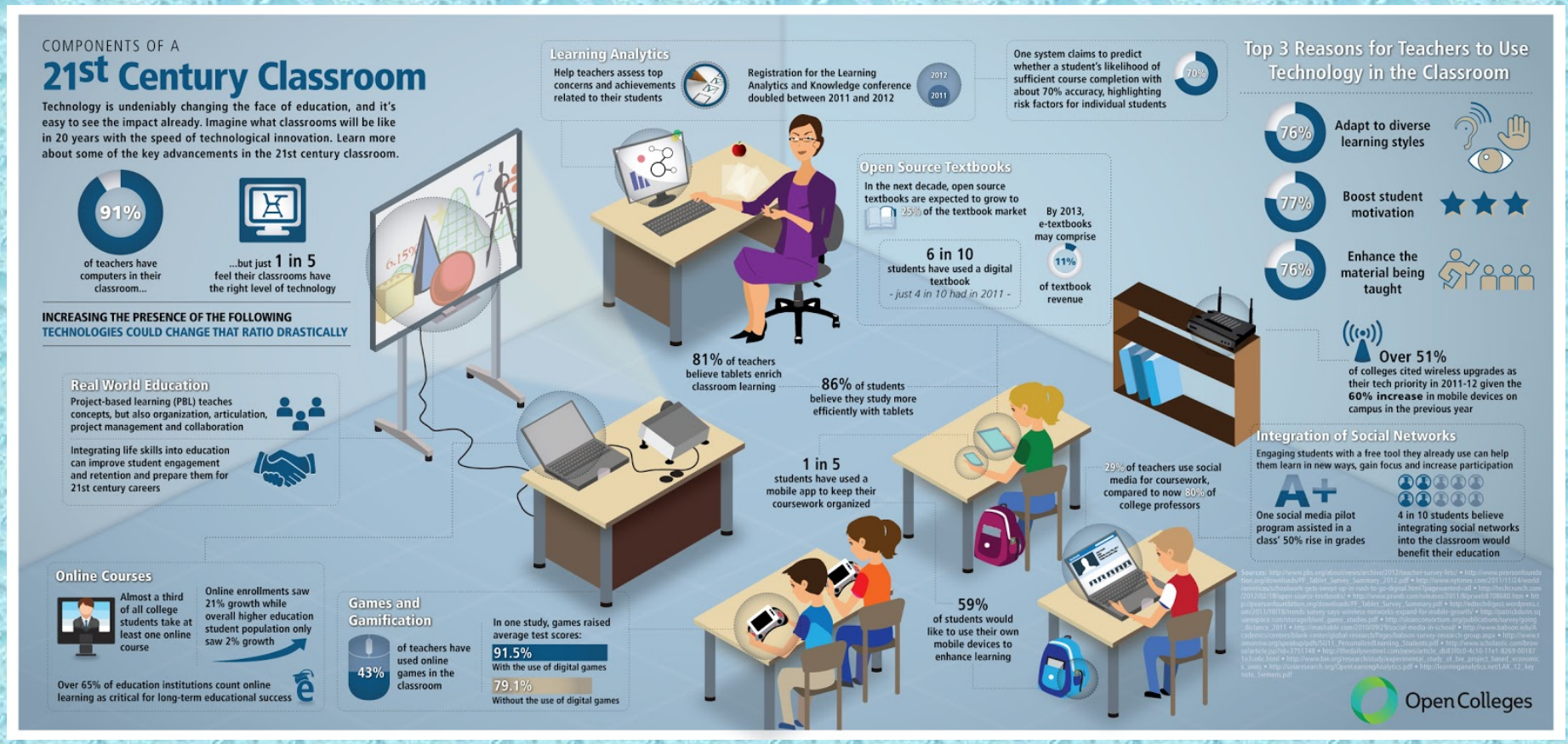
Increase in Technology

Cost Effectiveness

You would have spent $3,054.82 in 1991 to buy all the stuff in this ad that you can now do with your phone or tablet. That's roughly equivalent to about $5,100 in 2012 dollars.

Classroom Technology



What should be the goals of iPad use?

- Increase curriculum accessibility
- Preparation for the future
- Increase student engagement and outcomes
- Increase motivation
- Social appropriateness

Universal Design for Learning

- Originated in the engineering field

Recognition Networks (What?)	Strategic Networks (How?)	Affective Networks (Why?)

• Multi-Modal
  • Visual
  • Auditory
• Scaffolding
	• How will students show their understanding?
	• How will it become more complex as student learning increases?
	• Executive functioning
	  • Organization
	  • Goal Setting
	  • Progress Monitoring
		• Motivating students to engage
		• Methods of providing feedback
		• Self-Assessment components

UDL Networks

Recognition Networks

The "what" of learning

How we gather facts and categorize what we see, hear, and read. Identifying letters, words, or an author's style are recognition tasks.

Present information and content in different ways

More ways to provide Multiple Means of Representation

Strategic Networks

The "how" of learning

Planning and performing tasks. How we organize and express our ideas. Writing an essay or solving a math problem are strategic tasks.

Differentiate the ways that students can express what they know

More ways to provide Multiple Means of Action and Expression

Affective Networks

The "why" of learning

How learners get engaged and stay motivated. How they are challenged, excited, or interested. These are affective dimensions.

Stimulate interest and motivation for learning

More ways to provide Multiple Means of Engagement

iPad Accessibility

- Control Center (Swipe up from bottom)
  - Access on Lock Screen & Access within apps
    - If a student struggles with swiping the control center up when on an app you can turn it off
  - Airplane Mode and Pop Up adds
  - Volume
  - Brightness
  - Airdrop
  - Lock rotation/Mute button

iPad Accessibility

- Settings-General
  - Siri
    - Must be connected to internet
    - Allowing “Hey Siri” (must have iPad plugged in)
    - Language and Gender
    - App launching (“Launch ____”)
    - Circle time:
      - Calendar
      - Weather

iPad Accessibility

- Settings-General
  - Siri (Continued)
    - Set an alarm or timer for an activity (could have "Hey Siri" option on and not have to interrupt group to set alarm for another kiddo ☺)
    - Taking Notes in class ("Note…")
    - Web search ("Search the web for…")
    - Dictation within apps requiring typing (see keyboard)

<u>Dictation Commands:</u>

Cap – Capitalize the first letter in the next word

New line – create a new paragraph

Comma – add comma punctuation

Period – add period punctuation

Exclamation point – add exclamation punctuation

iPad Accessibility

- Settings-General
  - Spotlight search
  - Accessibility
    - VoiceOver
      - Commands:
        - » Tap to select
        - » Double tap to activate selected item
        - » Swipe to scroll to next item
      - Speaking rate
      - Braille
        - » https://www.youtube.com/watch?v=qi_JlropXRo

iPad Accessibility

- Settings-General
  - Accessibility
    - Zoom
    - Invert Colors
    - Grayscale
    - Speech
      - Toggle for the speak button to appear when text is selected
      - Speak Screen option
      - Voices (higher quality voices take more memory)
      - Highlight content option
    - Larger Text
    - Bold Text (requires you to restart iPad)

iPad Accessibility

- Settings-General
  - Accessibility
    - Button Shapes (outlines all buttons)
    - Increase Contrast
      - Darken Colors
      - Reduce white point (possibly beneficial for students with autism)
    - Reduce Motion (weird setting but might benefit some students who have visual processing issues)
    - Hearing aids
    - Guided Access
      - Turn on and then triple click home button within selected app
      - Can set time limits and other options

iPad Accessibility

- Settings-General
  - Accessibility
    - Switch Access
    - Assistive Touch (easier access without having to activate the home button, control center, or volume controls)
    - Home click speed
  - Multitasking Gestures
  - Restrictions
    - Disallow access to Safari and other iPad components
    - Limit access to explicit content
    - Limited access to websites on Safari
    - Restrict volume changes (save your sanity)
    - Restrict deleting apps

iPad Accessibility

- Settings-General
  - Keyboard
    - Adding keyboards (Emoji)
    - Creating shortcuts
    - Keyboard options
- Display & Brightness
  - Text size
  - Bold text
- Sounds (keyboard clicks)
- Facetime (if a student is unable to attend a class in that setting, you could potentially facetime the class session to their setting)

iPad Accessibility

- Other tips and tricks
  - Undo (Shake iPad-but not too hard ☺)
  - Adding a website as an "app" on the home screen
    - Go to website, click share button, and select "add to home screen"
  - Screenshot (Home and Power button simultaneously)
  - Hit top of screen to go back to top of a page
  - Holding down the "." to access ".com, .org., .edu…"

Anyone else have tips and tricks they use?

Methods of Evaluating Apps

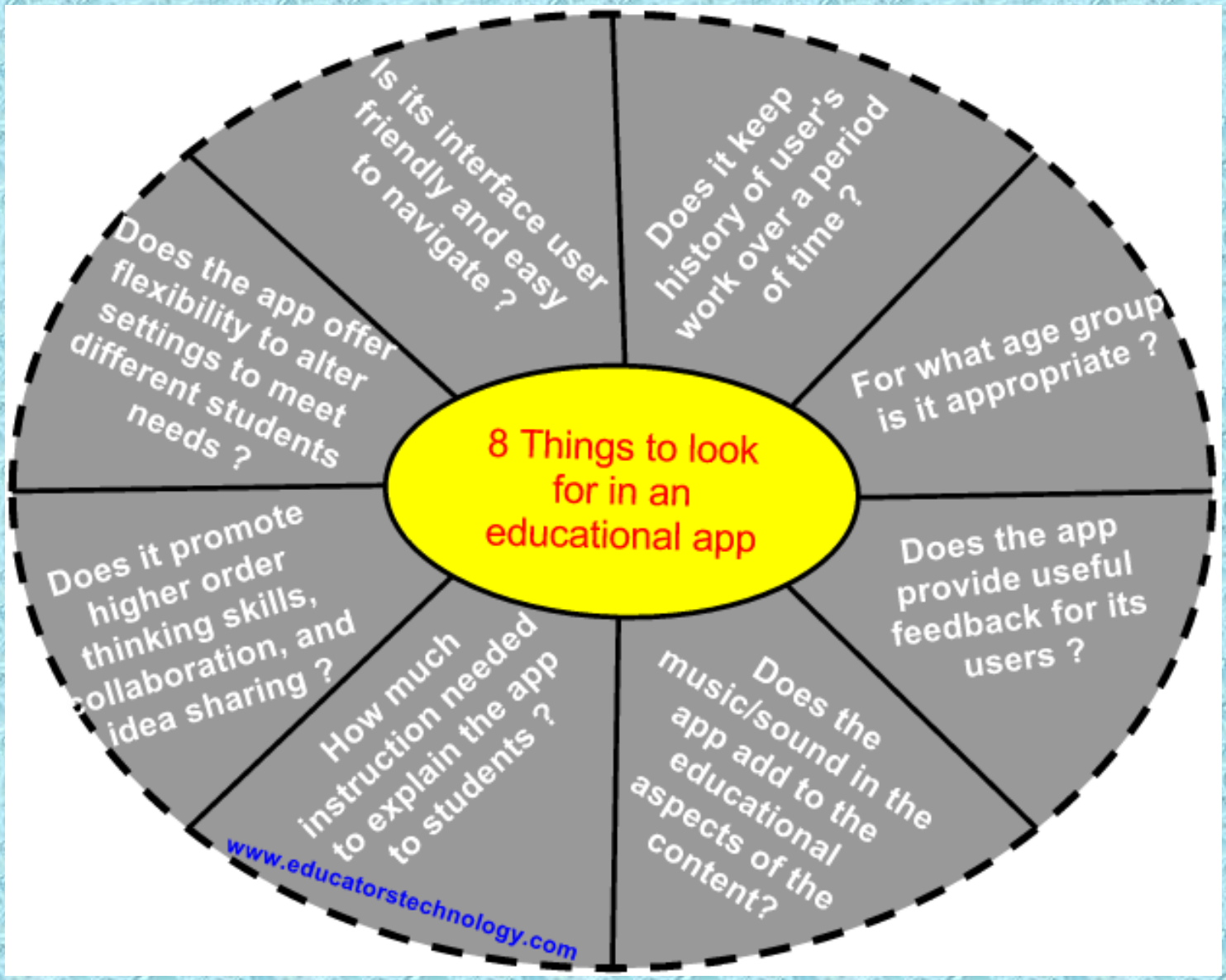
Factors to consider:

- Cost
- Curriculum alignment
- Curriculum comprehensiveness
- Targeted skills
- Use with multiple students

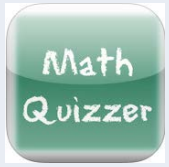
Typically each individual or district will decide on their own evaluation factors

- See Handouts

Example Model of App Evaluation



Apps: Academic-Math

App	Price	Benefits
Talking Calculator	$1.99	Voice output of numbers and mathematical functions. Speaks answer.
Math Tappers: ClockMaster	FREE	Teachers both reading and setting clock skills
Jungle Coins	$2.99	Identify coins, coin values, and calculate correct change. Multiple currencies.
First Calculator-Talking Calculator	$0.99	Talking and visually stimulating (reinforcing)
My Script Calculator	FREE	Calculator that allows you to handwrite on the screen. Good for those with fine motor concerns.
Math Quizzer 	FREE	More age appropriate app for middle and high school aged students on basic math skills (addition, subtraction, multiplication, division)

Apps: Academic-Reading

App	Price	Benefits
Action Words	FREE	100+ verbs included, customizable for adding more verbs, language component with questioning.
Sentence Mill	FREE	Students put words together into sentences to go along with a picture.
PCS Language Flash Cards	FREE	Practice on opposites, adjectives, synonyms, and the alphabet
Phonics Genius	FREE	Visual highlighting of sound segments, assessment of phonics, customizable
See. Touch. Learn.	FREE	4,000+ picture cards which can be adapted to create lesson plans other activities
Speech with Milo	$2.99	Multiple apps (i.e., adjective, storybook, prepositions, sequencing, and verbs).

Apps: Academic-Writing

App	Price	Benefits
Sentence Builder	$6.49	Increase grammatically correct sentence structure. Good for both elementary and secondary education.
Clicker Docs	$32.99	Customize to include word banks for writing about specific topics, ability to switch between word bank and keyboard
Little Story Maker	FREE	Students can easily create their own stories and interactive books. Also could be used for teacher created social stories
Lifecards-Postcards	$1.99	Student can create Postcards on the iPad with captions and letter writing
Creative Book Builder	$4.49	Students can create digital chapter books with pictures
Strip Designer	$2.99	Design comic strips with personalized pictures. Highly reinforcing and engaging for writing skills

Apps: Academic-Science & Soc. Studies

App	Price	Benefits
U.S. Geography By Discovery Education	$0.99	Good visuals, activity questions, achievement levels (reinforcement)
Beautiful Planet HD	$1.99	Variety of multimedia (i.e., pictures, maps, music)
3D Brain	FREE	Visual representation of the parts of the brain
The Elements: A Visual Exploration	$13.99	Exploration of the Periodic Table with pictures, stories, and fun facts for each element
National Geographic World Atlas	$1.99	Excellent maps, and ability to examine facts and information about countries around the world with visual support.
iDress for Weather	$1.99	Life skills linkage to science standards

Apps: Social Skills

App	Price	Benefits
Sharing Timer	$0.99	Ability to set a timer with multiple people involved in an activity. Set up times for sharing in activities.
Book Creator	$5.49	Similar to Pictello, but less expensive (does not include the text to speech component). Individualize social stories for targeted skills in an easy editing method
Practicing Pragmatics	$4.49	Variety of pragmatic language skills. Ability to take some data on pragmatic skills
ABA Flash Cards & Games-Emotions	FREE	Ability to target specific emotion recognition by choosing specific emotions. Ability to create your own emotion pictures
Touch & Learn-Emotions	FREE	Over 30 different emotions to work on and assess. Customizable with the ability to add new pictures for specific emotions

Apps: Visual Supports & Behavior

App	Price	Benefits
ASD Tools	FREE	Fully customizable to create First-Next-Then visuals, visual timers, and rewards
Voice Meter Lite	FREE	Visual meter of volume level of the environment.
iReward	$2.99	Fully customizable system of providing reinforcement and
Token Board	$4.49	Ability to set up individualized “tokens” used for creating individual reinforcement and intervention plans
Week Planner For Kids	$1.99	Customizable visual planner for students at an early age
Choice Board Creator	FREE	Customizable choice board app, that is FREE!

Please contact us with further questions or input:

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