SET BC  Tier 1 Professional Learning Service

PLC: Supporting Diverse Literacy Needs

School District #46: Sunshine Coast
January 22, 2019 (Session #1)
About the Facilitator:

Name: Iren Heer  
SET-BC Tier 1 Provincial Teacher  
Email: iheer@setbc.org

SET-BC Website:  
http://www.setbc.org/
SET BC: Overview and Service Delivery

- Provincial outreach program
- Goal: to assist BC school districts (K-12) build their capacity to use technology to support the diverse needs of their students

Professional Development (District-Based)

Tier 1 Services
- District-based professional development
- District-wide capacity building

Tier 2 Services
- District and school-wide capacity building
- Specific technology training
- Classroom-based learning interventions

Tier 3 Services
- Intensive, individual interventions
- Annual team support

Student-Based

Classroom-Based
Housekeeping:

• sign-in sheet and nametags
• washrooms
• wifi access
• handouts - paper and digital
• post-workshop survey
• images
Handouts and Resources – AfterShare

Iren’s AfterShare Site:
http://learningnetwork.setbc.org/sd46literacy/
QR Codes: Introduction

• QR = Quick Response

• great for sharing website links

• built-in QR scanner in camera on iOS 11 and up
QR Codes: Overview

- open the camera app on your device
- hold the camera up to the QR code
- a notification will appear on your screen once code is recognized
- tap the notification and a Safari web page will open
Welcome to Iren's AfterShare Space

So glad you could join me here for a follow-up to our session.

Click here to go to Workshop Resources or to join the conversation.

Go to Follow Up
Learning Intentions

- gain a greater understanding of the UDL framework and strategies to support diverse literacy needs

- explore tools and resources to support diverse literacy needs

- reflect on how the tools and strategies shared today may be used with your students
Learning More About You (Padlet):

• What grade(s) are you working with this year?

• What are some strengths/stretches of your students as they relate to literacy?

• What are some tools/strategies you use or have seen used to support the diverse needs literacy of students?
Heer Here!
What grade(s) are you working with? What are some strengths/stretches of your students as they relate to literacy? What are some tools/strategies you use to support the diverse literacy needs of your students?

https://padlet.com/iheer/9czvd5w52ga4
Click on this icon on the bottom right of the screen or double tap on the padlet to add a post.
Heer Here!
What grade(s) are you working with? What are some strengths/stretches of your students as they relate to literacy? What are some tools/strategies you use to support the diverse literacy needs of your students?

https://padlet.com/iheer/9czvd5w52ga4
Who can make use of these features and why?

- CURB CUTS
- TACTILE PAVING
- RAMPS
- AUTOMATIC DOORS
inclusion for all
“Universal design is the design of products and environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.”

Ronald Mace
Universal Design + Learning
Universal Design for Learning

- Differentiated Instruction (DI)
- Understanding by Design (UbD)
- 21st Century Skills
- Multiple Intelligences
- Response to Intervention (RTI)
- Assessment For, Of, As Learning
What?
- Choice
- Flexibility

Why?
- Inclusion
- Accessibility
Universal Design for Learning Guidelines

AFFECTIVE NETWORKS: THE WHY OF LEARNING

Engagement
For purposeful, motivated learners, stimulate interest and motivation for learning.

RECOGNITION NETWORKS: THE WHAT OF LEARNING

Representation
For resourceful, knowledgeable learners, present information and content in different ways.

STRATEGIC NETWORKS: THE HOW OF LEARNING

Action & Expression
For strategic, goal-directed learners, differentiate the ways that students can express what they know.

http://www.cast.org/
Redesign of the Curriculum

• based on a “Know-Do-Understand” model
• concept-based
• competency-driven

• **Content (KNOW)** – essential topics and knowledge; thinking, reasoning, applying, solving a range of problems

• **Curricular Competencies (DO)** – skills, strategies, and processes that students develop over time; skills, facts, procedures

• **Big Ideas (UNDERSTAND)** – generalizations, principles, and key concepts; making sense of it

https://curriculum.gov.bc.ca/
## Area of Learning: ENGLISH LANGUAGE ARTS

**Grade 3**

### BIG IDEAS

- **Language and story can be a source of creativity and joy.**
- **Stories and other texts help us learn about ourselves, our families, and our communities.**
- **Stories can be understood from different perspectives.**
- **Using language in creative and playful ways helps us understand how language works.**
- **Curiosity and wonder lead us to new discoveries about ourselves and the world around us.**

### Learning Standards

#### Curricular Competencies

- **Reading, listening, viewing**
  - Comprehend and connect (reading, listening, viewing)
    - Read fluently at grade level
    - Use sources of information and prior knowledge to make meaning
    - Make connections between ideas from a variety of sources and prior knowledge to build understanding
    - Use developmentally appropriate reading, listening, and viewing strategies to make meaning
    - Recognize how different texts reflect different purposes
    - Engage actively as listeners, viewers, and readers, as appropriate, to develop understanding of self, identity, and community
    - Explain the role that story plays in personal, family, and community identity
    - Use personal experience and knowledge to connect to text and make meaning
    - Recognize the structure and elements of story
    - Show awareness of how story in First Peoples cultures connects people to family and community
    - Develop awareness of how story in First Peoples cultures connects people to land

- **Writing**
  - Create and communicate (writing, speaking, representing)
    - Exchange ideas and perspectives to build shared understanding
    - Create stories and other texts to deepen awareness of self, family, and community
    - Plan and create a variety of communication forms for different purposes and audiences
    - Communicate using sentences and most conventions of Canadian spelling, grammar, and punctuation
    - Develop and apply expanding word knowledge
    - Explore and appreciate aspects of First Peoples oral traditions
    - Use oral storytelling processes

- **Speaking**
  - Students are expected to know the following:
    - Storytext
      - elements of story
      - functions and genres of stories and other texts
      - text features
      - literary elements and devices
    - Strategies and processes
      - reading strategies
      - oral language strategies
      - metacognitive strategies
      - writing processes
    - Language features, structures, and conventions
      - features of oral language
      - word patterns, word families
      - legible handwriting
      - sentence structure
      - conventions

**June 2016**  
[www.curriculum.gov.bc.ca](http://www.curriculum.gov.bc.ca)  
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Literacy Foundation

• literacy is the ability to understand, critically analyze, and create a variety of forms of communication, including oral, written, visual, digital, and multimedia in order to accomplish one’s goals

• fundamental to all learning

• applied to all areas of learning
Accessible Curriculum:

A flexible curriculum that allows for:

• multiple ways for teachers to represent learning

• multiple ways for students to engage in learning

• multiple ways for students to demonstrate their learning
UDL and BC’s Redesigned Curriculum:

Intersecting Features:
- student-centered
- flexible
- supports deeper learning
<table>
<thead>
<tr>
<th>Multiple Means of Engagement</th>
<th>Multiple Means of Representation</th>
<th>Multiple Means of Action &amp; Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>- choice in book/topic</td>
<td>- enlarged print/alternate text</td>
<td>- alternatives for rate, timing and speed</td>
</tr>
<tr>
<td>- different ways to read/access information</td>
<td>- audio books/text-to-speech</td>
<td>- alternatives for physical response (speech-to-text, Siri)</td>
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<td>- routines and predictability</td>
<td>- tactile learning kits</td>
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</tr>
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<td></td>
<td></td>
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<tr>
<td>- relevant/age appropriate topics</td>
<td>- support for vocabulary</td>
<td>- use of multiple media/modes</td>
</tr>
<tr>
<td>- partner/group work</td>
<td>- text-to-speech/digital text</td>
<td>- spellcheckers, word prediction &amp; grammar tools</td>
</tr>
<tr>
<td>- emphasis on process not product</td>
<td>- use of visuals</td>
<td>- graphic organizers, concept mapping &amp; outlining tools</td>
</tr>
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<td></td>
<td>- information available in first languages</td>
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<td></td>
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<td></td>
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<tr>
<td>- tools/strategies available for use</td>
<td>- activate prior knowledge</td>
<td>- supported student goal setting</td>
</tr>
<tr>
<td>- use of graphic organizers</td>
<td>- explicit cross-curricular connections</td>
<td>- supports for planning</td>
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<tr>
<td>- provide multiple entry points</td>
<td>- different models for self-assessment</td>
<td>- tools to show and explain thinking</td>
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<tr>
<td></td>
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<td>- graphic organizers</td>
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<tr>
<td></td>
<td></td>
<td>- different models for self-assessment</td>
</tr>
</tbody>
</table>
# TIC-TAC-TOE Choice Board

For a Book Report

<table>
<thead>
<tr>
<th>Draw a picture of the main character.</th>
<th>Perform a play that shows the conclusion of a story.</th>
<th>Write a song about one of the main events.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Write a poem about two main events in the story.</td>
<td>Make a poster that shows the order of events in the story.</td>
<td>Dress up as your favorite character and perform a speech telling who you are.</td>
</tr>
<tr>
<td>Create a Venn diagram comparing and contrasting the introduction to the closing.</td>
<td>Write two paragraphs about the main character.</td>
<td>Write two paragraphs about the setting.</td>
</tr>
</tbody>
</table>

- **Book Title:** The Outsiders
- **Author:** S.E. Hinton

---

**Venn Diagram:**

- **Topic:**
  - __________
  - __________
  - __________
  - __________

- **Topic:**
  - __________
  - __________
  - __________
  - __________

---

**Diagram Image:**

Image of book cover and clothing items.
CREATIVE PROCESS

TIME

*This is awesome
*This is tricky
*This is crap
*I am crap
*This might be okay
*This is awesome
Using Technology to Support Diverse Literacy Needs
Technology Exploration: SWOT Analysis
<table>
<thead>
<tr>
<th><strong>INTERNAL</strong></th>
<th><strong>EXTERNAL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S</strong></td>
<td><strong>W</strong></td>
</tr>
<tr>
<td><strong>STRENGTHS</strong></td>
<td><strong>WEAKNESSES</strong></td>
</tr>
<tr>
<td>• What does it provide?</td>
<td>• What does it lack?</td>
</tr>
<tr>
<td>• What does it do well?</td>
<td>• What doesn’t it do well?</td>
</tr>
<tr>
<td>• Limitations?</td>
<td></td>
</tr>
</tbody>
</table>
SWOT Analysis

STRENGTHS
- What does it provide?
- What does it do well?

WEAKNESSES
- What does it lack?
- What doesn’t it do well?
- Limitations?

OPPORTUNITIES
- How could this tool be used?
- Who benefits from its use?

THREATS
- Negative impact(s)?
- Downside(s)?
QR Codes and the Classroom Library:

• create audiobooks
  • record a student, colleague, parent reading a book
  • create a QR code for the audio file (using an extension or generator)
  • print and attach the code to the book

• create book reviews
  • students record their book reviews
  • create a QR code, print and attach the code
QR Codes and Audiobooks:

- students listen and follow text (track text with tool or finger)
- promotes interest in reading
- models reading and critical listening (with guided questions)
- helps improve vocabulary and reading fluency
- select books that reflect students’ interests
Storybook Online:

- videos featuring actors reading children’s books (with illustrations)
- learning activities (for teachers/parents) available for each book (PDF)
Read&Write
iOS Built-in Accessibility Features
Digital Tools to Support Diverse Literacy Needs:

- Book Creator: digital book
- Chatterpix: make images talk
- Popplet: mind-map
- Toontastic: digital storytelling
- Explain Everything/Legacy: whiteboard app
- Quizlet: digital flashcards and learning tools
Read&Write
Read&Write: Overview

• cross-platform tool for literacy support

• features include:
  • text-to-speech
  • text and picture dictionaries
  • speech-to-text
  • word prediction
  • spelling and grammar check

• highlighters
• screenmask
• translator
• voice notes
• simply texts
Read&Write: Overview

• teachers can get a free premium subscription

• to register and activate your subscription, go to texthelp.com/en-gb/products/read-write/free-for-teachers/ after installing the Read&Write for Google Chrome trial
# Features and Benefits of Read&Write

for Google Chrome™, Windows and Mac

Benefits and Instructional Implications 2018

<table>
<thead>
<tr>
<th>R&amp;W Tools</th>
<th>Symbol</th>
<th>RW4GC</th>
<th>R&amp;W Win</th>
<th>R&amp;W Mac</th>
<th>Benefits/Instructional Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Text to Speech</td>
<td></td>
<td>Hover Speech available on Web toolbar</td>
<td>Read the Web for Windows</td>
<td>Read the Web for Mac</td>
<td>Increases reading speed, fluency and comprehension.</td>
</tr>
<tr>
<td>Hover Speech Read the Web</td>
<td></td>
<td>PDF toolbar for Click to Speak</td>
<td>PDF Reader contains Click to Speak</td>
<td>PDF Reader contains Click to Speak</td>
<td>Helps increase sight word vocabulary through seeing and hearing the word at the same time also aided by the yellow and blue highlighting while it is reading.</td>
</tr>
<tr>
<td>Screenshot Reader</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Older readers are aided by increased focus and keeping a pace to get through more lengthy assignments/texts.</td>
</tr>
<tr>
<td>Click to Speak</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Struggling readers general struggle with individual word recognition which impedes making meaning. Regardless of a student’s reading ability, generally their ability to comprehend when having read with students is higher - often much higher so with a TTS most students can successfully understand.</td>
</tr>
</tbody>
</table>

Many students have never used a physical dictionary before. Struggling readers are helped by having the definitions read aloud. Having the dictionary available with whatever document they are using can help as well. 

Students must determine word meaning from context and using definitions can help. Many standardized tests allow for pre-selected words to have pop-up glossaries and students need to be in the habit of accessing.
Read&Write for Google Chrome

September 12, 2017

Read&Write for Google Chrome is an extension that contains a growing number of tools designed to support students with diverse reading and writing needs. This course will go over the features on the Read&Write for Google Chrome toolbar. Each Module contains step-by-step text tutorials with visuals, along with video demonstrations.

https://www.setbc.org/2017/09/readwrite-for-google-chrome/
iOS Built-in Accessibility Features
Built-in Accessibility Features

- included in iOS

- provide support for a range of accessibility challenges:
  - vision
  - hearing
  - physical and motor skills
  - learning and literacy

http://www.apple.com/ca/accessibility/ios/
Settings > General > Accessibility
<table>
<thead>
<tr>
<th>Vision</th>
<th>Hearing</th>
<th>Physical and Motor Skills</th>
<th>Learning and Literacy</th>
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</thead>
<tbody>
<tr>
<td>Siri</td>
<td>Facetime</td>
<td>Siri</td>
<td>Guided Access</td>
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<tr>
<td>Speak Screen</td>
<td>Subtitles and closed captions</td>
<td>Assistive Touch</td>
<td>Reading Support</td>
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<tr>
<td>Speak Selection</td>
<td>iMessage</td>
<td>Switch Control</td>
<td>Dictionary</td>
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<tr>
<td>Dictation</td>
<td>Mono Audio and balance</td>
<td>Touch Accommodation</td>
<td>Safari Reader</td>
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<tr>
<td>VoiceOver</td>
<td>Visible and Vibrating Alerts</td>
<td>Dictation</td>
<td>Siri</td>
</tr>
<tr>
<td>Zoom</td>
<td>Hearing devices</td>
<td>Predictive Text</td>
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<td>Font Adjustments</td>
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<td>Keyboard Shortcuts</td>
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<td>Invert Colours</td>
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<td>Support for Third Party Keyboards</td>
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<td>Greyscale</td>
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<td>Support for Braille Displays</td>
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<td>Magnifier</td>
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<td>Accessibility Options</td>
<td>Status</td>
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<td>VoiceOver</td>
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<td>Zoom</td>
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<td>Magnifier</td>
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<tr>
<td>Display Accommodations</td>
<td>On</td>
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<td>Speech</td>
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<td>Larger Text</td>
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<td>Bold Text</td>
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<td>Button Shapes</td>
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<td>Increase Contrast</td>
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<td>Reduce Motion</td>
<td>Off</td>
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<tr>
<td>On/Off Labels</td>
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<td>Switch Control</td>
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<td>AssistiveTouch</td>
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<td>Touch Accommodations</td>
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<td>Home Button</td>
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<td>Siri</td>
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<td>Keyboard</td>
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<td>Shake to Undo</td>
<td>On</td>
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<tr>
<td>Call Audio Routing</td>
<td>Automatic</td>
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### HEARING
- **MFi Hearing Devices**
- **Mono Audio**

Adjust the audio volume balance between left and right channels.

### MEDIA
- **Subtitles & Captioning**
- **Audio Descriptions**

### LEARNING
- **Guided Access**
- **Accessibility Shortcut**
Settings > General > Keyboard > Enable Dictation

Enable Dictation

Dictation Languages

About Dictation and Privacy...

You can use Dictation for English when you are not connected to the Internet.

ENGLISH

Check Spelling

Predictive
iOS Word Prediction

**Settings > General > Keyboard > Predictive**

- predictive keyboard feature displays suggestions to users as they type
- suggested words based on spelling and context
- tap on a suggested word to add
iOS Speech to Text (Dictation)

Settings > General > Keyboard > Enable Dictation

1. tap the microphone button on the keyboard to begin dictation

2. iPad will record your voice and convert it into text when you are finished

3. tap the microphone button again to stop dictating
iOS Speech to Text (Dictation): Tips

• think about what you are going to say
• dictate short (complete) sentences
• include punctuation as you speak
• say “new line” as a command
• lasts about 30-40 seconds
• avoid background noise for best results
• practice makes perfect
Siri:

- virtual assistant
  (Speech Interpretation and Recognition Interface)

- hold the home button to activate

- answers questions, makes recommendations, performs actions
  (set alarms and reminders, get directions)
Activity: Explore Accessibility Features

- open the Notes app
- try:
  - Word Prediction
  - Dictation
- use the Speech tool to get Siri to speak to you
Discussion: Accessibility Features

• how may these features be used to support diverse literacy needs?

• any drawbacks?
iOS Text to Speech (Speech)

Settings > General > Accessibility > Speech

*Speak Selection*: highlight specific text to be read aloud

*Speak Screen*: swipe down with two fingers from the top of the screen to have the whole screen read aloud
developing PARTNERSHIPS ● building CAPACITY ● supporting STUDENTS ● implementing TECHNOLOGY
iOS Text to Speech (Speech)

Speak Selection

A Virginia high school student developed a close bond with a janitor at his school and decided to gift custodian a new pairs of sneakers he couldn’t afford.

Speak Screen
Safari: Reader View

• simplifies websites for reading by removing clutter (sidebars, ads, etc.)

• allows users to change font type and size

• able to press and hold word you want to look up
Red Hot Chili Peppers surprise school with costumed Halloween performance

Adam Wallis

HL: Watch Red Hot Chili Peppers play school Halloween show

Trick? These lucky kids just took the treat.

Red Hot Chili Peppers made a surprise visit to a private school in Calabasas, Calif., on Wednesday morning to play a couple of songs. The Viewpoint School students were celebrating their annual “Great Pumpkin Day” assembly when the rock icons showed up in full costumes.

Drummer Chad Smith invited bandmates Anthony Kiedis, Flea and Josh Klinghoffer to his kids’ school for an exclusive performance of their 2002 fan-favourite, Can’t Stop.
Activity: Explore Accessibility Features II

- open a web browser (Safari) and go to https://globalnews.ca
- open an article of your choice
- try:
  - Speech Selection
  - Speak Screen
  - Reader View
Discussion: Accessibility Features II

• how may these features be used to support diverse literacy needs?

• any drawbacks?
Camera and Photos

• take a picture with the iPad camera
• save an image from the internet
• take a screenshot from the iPad
  • hold home and on/off button
  • can edit screenshot and save it
Sharing with AirDrop (iOS 7 and up)

• open Control Centre
  (swipe up from bottom or down from top-right)

• set AirDrop to Everyone

Settings > General > AirDrop
Sharing with AirDrop (iOS 7 and up)

• share documents/images/videos quickly and easily to other iOS devices
Digital Tools to Support Diverse Literacy Needs:

- Book Creator: digital book
- Chatterpix: make images talk
- Popplet: mind-map
- Toontastic: digital storytelling
- Explain Everything/Legacy: whiteboard app
- Quizlet: digital flashcards and learning tools
Task Cards are available on AfterShare

### Book Creator

**Introduction**

Book Creator is a versatile tool that can be used to create books or projects in any subject area. The books can be saved in PDF or movie format, published to books, or shared in a variety of ways. Book Creator would benefit students who need a more simple and intuitive yet powerful tool for creating digital books and who may need to use the writing support built into the iPad or express their learning visually.

**Integration Ideas**

- Digital Story Telling: create interactive books that can be published in iBooks
- Learning Journeys: document new learning using images, drawings, photos, and voice
- Vocabulary Study with Sound Support
- Think-a-activité using the voice recording feature
- Explain your thinking using the voice recording feature
- Create social stories to model behavior
- Write, illustrate, and read a poem

### Task Challenge/Activity

- Launch Book Creator and create a new book. In the free version, you can only create one book, so if the book already exists, just practice on an empty page.
- Tap the + sign and choose Text. Enter your text in the window and tap Done.
- Tap your text box to select it. Tap the Inspector Tool (symbol) to increase the font size, change font, color, background color of the text box, etc.
- Tap the + sign to add photos, drawings, or sound recordings to the page. Adjust the properties of objects using the Inspector Tool.
- Add additional pages by tapping the + on the right hand side.
- When finished, tap the share icon. You can save or share your book to the Camera Roll, by email, Air Drop, or publish to iBooks.

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**SET BC**

developing PARTNERSHIPS • building CAPACITY • supporting STUDENTS • implementing TECHNOLOGY
Resources & Handouts:

- After share
- BC's New Curriculum
- read write think
- SET-BC
Questions? Comments?
Our Next Sessions (Virtual):

• Tues. Feb. 12, 2019 (3:30pm - 4:30pm)

• Thurs. April 25, 2019 (3:30pm - 4:30pm)

• Virtual location:
Post-Workshop Survey
Thank You