SBAC Supports & Access Options for English Learners

Rick Phelan
http://www.scoe.org/sbac
Outcomes & Goals

Participants will:

● Learn about Key Planning Resources from SBAC & CDE

● Develop Knowledge of SBAC Question Types & Access Possibilities

● Obtain Tools & Resources that Support 21st Century Skills/SBAC Readiness
Part 1:

Key Planning Materials
Universal Tools, Designated Supports, and Accommodations for the California Assessment of Student Performance and Progress for 2014–15

Matrix One:

Purpose and Use: This document displays the universal tools, designated supports, and accommodations (embedded and non-embedded) allowed as part of the California Assessment of Student Performance and Progress (CAASPP) for 2014–15. This document should be used in conjunction with the Smarter Balanced Assessment Consortium: Usability, Accessibility, and Accommodations Guidelines, available at http://www.cde.ca.gov/ta/tg/sa/access.asp, and the California Code of Regulations, Title 5, (CCR) sections 850 to 868 available at http://www.cde.ca.gov/ta/tg/ca/, in the determination of supports for individual students. The accommodation of embedded and non-embedded tools and designated supports is available at http://www.cde.ca.gov/ta/tg/ca/.

http://goo.gl/tbRHyi
The Guidelines define....

Embedded Supports:

part of the computer based testing environment of the SBAC

Non-Embedded Supports:

materials & supports separate from the SBAC (eg. scratch paper)
SBAC Digital Library

development of formative CCSS assessment repertoires

Check with your district assessment coordinator to obtain an account.
Part 2:
Developing Knowledge of Question Types & Access Possibilities
Methods of Response...

- Multiple choice
  - one correct response
  - multiple correct responses
  - two-part
- Matching tables
  - yes/no
  - true/false
- Fill-in tables
- Select or order text or graphics
- Drag and drop
- Graphing
- Equation or numeric response
- Short text
- Long essay
SBAC Design Principles

The Smarter Balanced Assessment Consortium (SBAC) has created a hierarchy comprised of claims and targets that together can be used to make statements about student achievement.

The claim is a broad statement that will outline the outcomes achieved with mastery of the standards within it. Within each claim are a variety of assessment targets that further clarify the knowledge and specific skills that cross over a cluster of standards.
Depth of Knowledge (DOK) Levels

Level One (Recall)
- Draw
- Identify
- List
- Label
- Illustrate
- Measure
- Infer
- Categorize
- Collect and Display
- Identify Patterns

Level Two (Skill/Concept)
- Graph
- Classify
- Separate
- Cause/Effect
- Estimate
- Compare
- Relate
- Distinguish
- Use Context Cues
- Make Observations
- Summarize
- Show

Level Three (Strategic Thinking)
- Revise
- Assess
- Develop a Logical Argument
- Construct
- Use Concepts to Solve Non-Routine Problems
- Compare
- Formulate
- Draw Conclusions
- Investigate
- Hypothesize
- Cite Evidence

Level Four (Extended Thinking)
- Apprise
- Critique
- Use Concepts to Solve Non-Routine Problems
- Compare
- Formulate
- Draw Conclusions
- Differentiate
- Cite Evidence

DOK Question Stems
http://goo.gl/6d3snq
SBAC Claims:
What’s being measured...

Mathematics

Claim #1 – Concepts & Procedures
Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.

Claim #2 – Problem Solving
Students can solve a range of complex well-posed problems in pure and applied mathematics, making productive use of knowledge and problem solving strategies.

Claim #3 – Communicating Reasoning
Students can clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.

Claim #4 – Modeling and Data Analysis
Students can analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems.
SBAC Claims: What’s being measured...

English Language Arts

Claim #1- Reading
Students can read closely and analytically to comprehend a range of increasingly complex literary and informational texts.

Claim #2- Writing
Students can produce effective and well-grounded writing for a range of purposes and audiences.

Claim #3- Speaking & Listening
Students can employ effective speaking and listening skills for a range of purposes and audiences.

Claim #4- Research
Students can engage in research /inquiry to investigate topics and to analyze, integrate, and present information.
Helpful Resource for Understanding SBAC Questions

Grade & Content Area Analysis
Grades 3-8 & High School: ELA & Math

http://goo.gl/XwV71o
SBAC Practice Tests, Training Tests and Answer Keys

Suggested Activity:

Whole class and small group discussions focusing on unit topics & SBAC question varieties.

http://www.scoe.org/sbac
Coming in January:
SBAC Interim Assessments

Why you should consider using Interim Assessment Blocks in strategic ways with small groups & classes...

- ELA & math CCSS standards assessments for grades 3-8, & high school
- ability to choose standards (flexible)
- mirror SBAC question varieties
- develop awareness of Universal Access
- evaluate Designated Supports
- performance reporting
Part 3:
Support for 21st Century Access and Expression & SBAC Readiness
Portrait of a 21st Century Learner

- a critical thinker
- a problem solver
- an innovator
- a communicator
- a collaborator
- globally aware
- civically engaged
- a self-directed learner
- information & media literate
- financially & economically literate

To succeed in our global community, I will need to be...
To live, learn, and work successfully in an increasingly complex and information-rich society, students must be able to use technology effectively.

- ISTE
Suggestions to Support Reading
Formatting of Text to Be Read

Size of Text (Zoom)- Increasing text size or other graphics in a window

Expandable Passages- stimulus can be expanded so that it takes up a larger portion of the screen
Size of Text

Common word processing programs:

- select text to be enlarged
- chose larger font size
### Size of Text- Screen Magnification

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Keyboard Command Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromebook</td>
<td><strong>Control</strong> and +</td>
</tr>
<tr>
<td>iOS (iPad)</td>
<td>Press down on the screen with your index finger and thumb leaving a small amount of space between. Move fingers away from each other, expanding the space between them.</td>
</tr>
<tr>
<td>Mac OS X</td>
<td><strong>Command</strong> and +</td>
</tr>
</tbody>
</table>
Several observations can be made from these findings. First, 14-point fonts were found to be more legible, promote faster reading, and were preferred to the 12-point fonts. Second, at the 14-point size, serif fonts tended to support faster reading. THIRD, mixed case text is easier to read than ALL CAPS.
Essential Take Aways

- **Size of text** is an important factor in readability
- **Serifs fonts** aid the eyes in tracking lines of text
- **Mixed text** (upper case and lower case letters) preferable to all UPPER CASE
- **Color contrast** can increase readability for some students (eg. yellow background and black letters)
Interacting with Text to Be Read

**English Glossary** - definitions for specific words in passages

**Highlighting Text** - use of an electronic highlighter for noting relevant details

**Text to Speech** - Text is read aloud to the student via embedded text-to-speech technology
A student is writing a report for English class about folk heroes. Read the draft introduction and conclusion and complete the task that follows.

You may never have heard of John Chapman, but you probably have heard of Johnny Appleseed. He was an American folk hero and pioneer who was born in Massachusetts in 1774. When he was eighteen years old, he decided to help the pioneers who were moving growing apple trees and giving apple seeds to them. That way, they would never go hungry.

Many people said that Johnny was a cheerful and generous man who loved the wilderness and was gentle with animals today, though, is walking the countryside and planting apples. He did this for almost fifty years. To this day, many people honor him. Next time you bite into a crispy, juicy apple, thank Johnny Appleseed.

The student took these notes from credible sources:

folk heroes

people who may or may not have existed whom other people look up to and admire

English Glossary is a Universal Access area.
Use of Google Documents: Define Tool
Highlighting and Annotating Text

Highlighting is a Universal Access Option on the SBAC
Teach Students the Value of Highlighting:

### Highlighting Tools for Laptops & Chromebooks

<table>
<thead>
<tr>
<th>Product</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evernote <a href="http://evernote.com">http://evernote.com</a></td>
<td>Excellent tool for highlighting and annotating PDFs; Electronic documents can be organized into notebooks</td>
</tr>
<tr>
<td>Notable PDF <a href="http://goo.gl/3fa2mW">http://goo.gl/3fa2mW</a></td>
<td>Chrome Extension</td>
</tr>
</tbody>
</table>
Teach Students the Value of Highlighting:

**Highlighting Tools for iOS Devices**

<table>
<thead>
<tr>
<th>Product</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evernote <a href="http://evernote.com">http://evernote.com</a></td>
<td>Excellent tool for highlighting and annotating PDFs; Electronic documents can be organized into notebooks</td>
</tr>
<tr>
<td>Notability <a href="http://goo.gl/4wwXCx">http://goo.gl/4wwXCx</a></td>
<td>Import PDFs to highlight and annotate. Documents can be organized into folders.</td>
</tr>
</tbody>
</table>
Text to Speech

Description: Text is read aloud to the student via embedded text-to-speech technology. The student is able to control the speed as well as raise or lower the volume of the voice via a volume control.

Text to Speech is an accommodation for ELA reading passages grades 6–8 and 11.

Text to Speech is a designated support for math stimuli items.
**Increase Use of Text to Speech with Tools like these....**

<table>
<thead>
<tr>
<th>Device</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromebook</td>
<td>iSpeech</td>
<td>iSpeech is a free text-to-speech extension that converts text to voice</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/i6IGj">http://goo.gl/i6IGj</a></td>
<td></td>
</tr>
<tr>
<td>iPad</td>
<td>iOS 8</td>
<td>Speak Screen is an accessibility feature of iOS 8 which allows users to quickly have text on the screen spoken aloud using text-to-speech</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/F2lltV">http://goo.gl/F2lltV</a></td>
<td></td>
</tr>
<tr>
<td>Mac OS</td>
<td>Mac OS X</td>
<td>Text to speech is an accessibility feature of Mac OS X</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/YTvS1">http://goo.gl/YTvS1</a></td>
<td></td>
</tr>
<tr>
<td>Windows OS</td>
<td>Windows OS 7</td>
<td>Text to speech is an ‘Ease of Access’ feature of the Windows operating</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/Ag17Hi">http://goo.gl/Ag17Hi</a></td>
<td></td>
</tr>
</tbody>
</table>
Suggestions to Support Writing
Writing is a critical skill for all students. Smarter Balanced Assessment Consortium (SBAC) materials have numerous constructed response items beginning in 3rd grade.

Students in primary grades should have initial experience composing and editing electronic text.
SBAC Universal Access Writing Tools

Students can emphasize ideas using:

- **Bold**
- **Italics**

Students can articulate their reasoning with:

- **Bullet Points**

Students can use ‘undo/redo’ to obtain last action perspective.
# Topic Brainstorming & Outlining*

<table>
<thead>
<tr>
<th>Device</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome</td>
<td>MindMeister for Google Docs</td>
<td>A Google Documents add-on that supports outlining and idea mapping</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/eLrGzs">http://goo.gl/eLrGzs</a></td>
<td></td>
</tr>
<tr>
<td>iOS</td>
<td>Kidspiration Maps</td>
<td>Kidspiration Maps helps young writers in grades K-5 learn to organize and classify information for written and verbal expression.</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/UbRYDH">http://goo.gl/UbRYDH</a></td>
<td></td>
</tr>
<tr>
<td>Mac &amp; Windows OS</td>
<td>Inspiration</td>
<td>Excellent tool for laptop and desktop computers; supports outlining and idea generating with hundreds of K-12 examples</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/3Hpmv">http://goo.gl/3Hpmv</a></td>
<td></td>
</tr>
</tbody>
</table>

*brainstorming & outlining software is not currently offered as an SBAC accommodation
# Word Prediction Software*

<table>
<thead>
<tr>
<th>Device</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome</td>
<td>Chrome Scribe</td>
<td>Chrome scribe is an extension that provides simple word prediction for the writer.</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/OmokcV">http://goo.gl/OmokcV</a></td>
<td></td>
</tr>
<tr>
<td>iOS</td>
<td>iReadWrite iPad App</td>
<td>iReadWrite is an app that uses context and a phonetic spell checker to help predict words for the writer.</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/7k23SR">http://goo.gl/7k23SR</a></td>
<td></td>
</tr>
<tr>
<td>Mac &amp; Windows OS</td>
<td>Co:Writer <a href="http://goo.gl/C0PZso">http://goo.gl/C0PZso</a></td>
<td>Co:Writer is word prediction software that works in conjunction with other applications. As the writer types, Co:Writer interprets spelling and grammar mistakes and offers word suggestions in real time.</td>
</tr>
</tbody>
</table>

*Word prediction software is not currently offered as an SBAC accommodation*
# Speech to Text

<table>
<thead>
<tr>
<th>Device</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrome</td>
<td>Read&amp;Write for Google</td>
<td>Among other features, Read&amp;Write can turn words into text as an individual speaks.</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/iPzZjK">http://goo.gl/iPzZjK</a></td>
<td></td>
</tr>
<tr>
<td>iOS</td>
<td>iOS 8</td>
<td>The iOS dictation feature supports speech input: tap the microphone button on the keyboard, say what you want to write, and the iOS device converts words into text.</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/Ac2ekf">http://goo.gl/Ac2ekf</a></td>
<td></td>
</tr>
<tr>
<td>Mac &amp; Windows OS</td>
<td>Dragon Naturally Speaking</td>
<td>Dragon Naturally Speaking supports speech to text for Windows and Mac operating systems</td>
</tr>
<tr>
<td></td>
<td><a href="http://goo.gl/VDXjE">http://goo.gl/VDXjE</a></td>
<td></td>
</tr>
</tbody>
</table>

Accommodation option for the 2015 SBAC
Suggestions to Support Mathematics
Universal Access Math Tools

Selected SBAC math questions include:

- Embedded protractor
- Embedded calculator (6th grade & up)
- Embedded ruler
Recommended Activities

Measurement activities with protractors and rulers
- Protractor Tool App iOS  http://goo.gl/D1iuow
- Smart Protractor Android  http://goo.gl/NO7TpD

Activities applying calculators & spreadsheets
- Calculator apps iOS & Android
- Spreadsheet Magic  http://goo.gl/IGVFmj

SBAC Simulation from San Diego COE
- Math Activities  http://ccas.sdcoe.net/
Text to Speech

Text to Speech is a designated support for math stimuli items.
Translations for Language Support

Translations Glossary

Translated glossaries are provided for selected construct-irrelevant terms for math. Translations for these terms appear on the computer screen when students select them.

Translations Glossary is a Designated Support
Which number line shows the correct locations of all the given values?

\( \frac{1}{2}, -4, -2 \frac{3}{4}, 1 \frac{1}{4} \)

A

B

C

D

[Diagram of number lines with points marked at -4, -2, 0, 2]
Conceptualizing Mathematical Ideas
Conceptualizing Math: National Library of Virtual Manipulatives

Math strands arranged by grade to help students conceptualize math concepts

Needs Java Script- Works with Mac, Windows & Linux OS and Firefox web browser

http://goo.gl/Dm7n
This blog post by Kelly Matteri & Rick Phelan provides information on five Android and iOS apps that can help students understand important ideas related to number sense.
Next Steps...

Expand your knowledge and skills in formative assessment with the author of the assessment section of California’s ELA/ELD Framework Dr. Margaret Heritage.

Improving Student Learning Through Formative Assessment

December 4 from 9-4 @ SCOE
http://goo.gl/2KXogV