**Smart board conference – Kanata Holiday Inn - October 17, 2008**

*Message to principals and tech enthusiasts regarding SMART boards etc:*

Although the SMART board conference was clearly as much a sales pitch for SMART board technology and the various products they sell, there are several important things to consider before making tech purchases for your school. Consider the SMART document camera instead of buying an ELMO. The SMART document camera does everything an ELMO does (microscope compatible, SD card slot) but it also works with SMART notebook software and the SMART board seamlessly. Also when considering “clickers” if you buy the SMART Senteo clickers they are seamlessly integrated with SMART board software and the SMART board. This may be better than other clickers especially if you want to use all of these things together.

**Websites mentioned**

E-learning Ontario

A ministry resource bank

Need the ucdsb login etc

[**www.elearningontario.ca**](http://www.elearningontario.ca)

many free powerpoints

[www.worldofteaching.com](http://www.worldofteaching.com)

Weekly podcast

Ontario/Manitoba teachers that give weekly podcast on SMART etc.

[www.pdtogo.com](http://www.pdtogo.com)

- Craig

***Overall licensing: all teachers can use SMART notebook software and have it loaded on their computers as soon as a SMART board is installed in their “district.” The same is true of the SENTEO clicker software.***

* Lesson activity Toolkit
  + Premade lessons and quizzes. Matching activities good for bell work, assessing prior knowledge, formative assessment and so on
* Orientation screen
  + Use at least nine-point orientation (press both buttons, keyboard and mouse to bring it up)
  + Use at least twenty-point orientation (for tinker-plots, geometer sketchpad etc)
  + Never use four point orientation. 80 point is the newest. Highest resolution
* Write with pens, but any soft non-abraisive item will work ie stuffed animals etc
* Ink layer. Ink layer is like laying an acetate sheet over the top of your computer screen
  + If you click the capture button (the little camera icon you can capture the inklayer including the underlying webpage, document, application, or desktop etc.
  + It is automatically saved as a page in SMART notebook
* Smart capture tool camera
  + Four options circle rectangle etc. you can capture images off of the web and import them etc
  + Automatically saves to a smart notebook page
* Smart aware toolbar is added to MS office products when Smart notebook is installed.
* You can draw with the pen in MS word and then click the plus button to either import the drawing as a clipart or as text.
* You can add data to excel and more

Part 2

* PowerPoint docs can be made more interactive without having to be changed.
* Free PowerPoint docs available at [www.worldofteaching.com](http://www.worldofteaching.com) Many ppt lessons available to use/adapt.
* One neat tip advance the ppt show on the SMART board is to use your hand to tap once then once to the right of the initial tap. Use the cadence you normally use to double click a mouse.
* You can use the SMART pens to add drawings in PPT. draw on top and save ink drawings for later
* License the smart notebook software is available to every student and every teacher in a “district” after the purchase of as few as one smart board.
* Notebook menu bar
  + **Left to right on menu bar**
  + **The left** hand side of the menu toolbar is essentially file management icons (save, undo redo, delete, open etc.)
  + **The middle** of the menu toolbar contains the presentation icons (full page display, dual page, cover a page, capture, doc camera feature). It also contains a table maker not as extensive as excel but good for quick and simple tables/graphs etc. (notebook ver 10)
  + **The right side** of the menu toolbar includes several frequently used tools
  + This includes the cursor, pen, magic pen, eraser, line tool, shape, shape tool, fill bucket, text tool, properties tool, VC tool vertically challenged for short people) This flips the menu to the lower part of the smart board inorder to make it accessible for short people
  + The Magic pen is very cool.
    - If you draw a circle you create a spot shadow in which everything outside of the circle is in a shadow and everything inside is brightly lit. lights different pieces
    - If you draw a square every thing within the square is magnified to a much larger size.
    - You can move the spot light or magnifying glass around the board like any other object
* The Tabs toolbar is a customizable toolbar that runs vertically along the left hand side of the screen. It includes:
  + Tables
  + Pages sorter
  + gallery tab in which you can find the:
    - the **essential tools for educators** folder which includes:
      * many different manipulatives like protractors, venn diagrams, and all kinds of stuff.
    - The **my content** folder in which you can create your own folders and organize captured art etc. into folders and organized how you like it.
    - Also the **Lesson activity tool kit**. One thing to remember is how SMART organizes there templates and lessons blue = math green =science etc.
    - The lesson activity toolkit also contains templates for creating matching items etc series of words etc.
  + Attachments tab
  + Properties tab
  + Pen tab includes
    - six pens two highlighters. You can erase words in a document for cloze activities for secondary…drag in words to understand
* Some highlights of the activities created and shown through out the morning session
  + Image match review - dead easy to create. Capture images from the web or use clipart photos etc. Have students match the images to text or other images.
  + Reveal feature- use it in the context of what you are doing in your class. You can reveal one line at a time or and image at a time etc.
  + Many different aspects of Balanced literacy. Read aloud, shared reading, choral reading etc.
  + Teaching transportation / tech
    - Auto teachers can illustrate under the car with digital camera this is sometimes easier than getting 20 kids underneath the car—also when safety is an issue. This may be a good way to keep the visual aspect of transportation manipulate. Using SMART boards during theory or textbook work to enhance the visual aspect may be very engaging for students.
  + Differentiation in Geography
    - Assemble as a map of Canada as a jigsaw puzzle, also label the provinces, put provincial flags in the right spots etc. Differentiation can be easy as you can keep the outlines or remove them and increase or decrease difficulty as you see fit.
  + Math - geometry
    - Create angle and use a protractor to find the degree
    - SMART notebook has two protractors to choose from
      * Plain Protractor a transparent protractor you lay on top of your angle and as interactive and multimedia interactive protractor—that finds the angle and draws a copy
  + Math (possibly grammar and other subjects too)
    - **SMART notebook’s recorder** function records the process of writing on the SMART board and the comments (when equipped with a mic) the user makes while working. This means the teachers examples can be saved verbatim and replayed for the class or an individual student. This may have an application in the following areas:
      * for students that miss class and need to see the teacher work through some problems.
      * For teacher think-alouds
      * For teachers to have a record of a student working out a problem
      * For encouraging meta-cognition. The student can see herself working and may be able to see mistakes this way.
  + Coaching
    - The SMART notebook software contains every possible **field of play** including CFL style football. This makes animating plays and drawing up offenses/defense a more interactive process.
* The **random number generator** can have a number of classroom applications. Making decisions, figuring out which group goes first etc, in math for number sentences etc.
* One feature to use is the **infinite cloner**. This feature is important if you want to be able to access the same onscreen object over and over again.
* **The Spinner** (think wheel of fortune but the teacher fills in the items on the wheel) and **Flip tiles** have been used for qdpe or reviewing questions etc.
* The **calendar generator** built into notebook can be used for things like tracking weather or perhaps class organization etc.
* **The dual page display** is good for pulling graphics from one page onto another especially if you are building tables managing data etc.
  + - In a situation where you want to pull data from many pages use **pin the page** functionto keep the page that is the destination for all the data (possibly a table) on screen as you flip through.
* One cool thing about tables in SMART notebook is that pictures and drawn items are automatically resized to fit into cells within the table
* Maping skills on the smart board
  + - Mapping can be done quite handily using Google maps and pens to draw routes and highlight important areas. If you capture a Google map you can trace over it..then remove the underlying map leaving only the bits that were traced.
* Pull tabs- and grouping items together
  + - **Making tabs** is a matter of **grouping.** One you import a pull tab you must group it with the object it will “pull” onto the screen. I think this was in the lesson activity tool kit. (at this point I was getting overloaded.
* **Shape tools** 
  + - You can use the **shape tools** to create thought bubbles and speech bubbles. Also the **shape maker tool** creates shapes (you draw a rough triangle, circle, or square, and the shape maker tool makes the shape perfect
* The two areas stress in the session quite a bit were
  + - the **Lesson activity tool kit** which contains a plethora of graphic interactive templates
    - …and the **Essential for educators** which contains a bunch of resources dice, compass etc.
* Incorporating Multimedia
  + - **Video**—with SMART notebook the flash format is best. You can add it to your notebook file and it is actually embedded. Moviemaker and QuickTime aren’t as good because they are linked to the notebook.
    - **Linking feature**- can link to a website, a file, an attachment, and other pages in your SMART notebook
      * This can be helpful especially if you have many pages that you don’t want to have to wade through. With the linking feature you can create back and forth buttons.
    - When linking to a file always select “**link to a copy**” because this actually embeds the file into the notebook and does not simply create a shortcut. This is good because if you take you notebook to use with another SMART board you will have all of the necessary files and no dead shortcuts.
* Important tip: **Name your pages don’t just timestamp**… you’ll find stuff waaay better.
* One of the most simple and powerful things to do is to save your class notes every time you write them on the SMART board. You can **also send or post notes for students via PDF**
* Simply **print to: smart notebook print capture**
  + - Same as KESI printer. Save and post lessons and notes
* ***Where to begin***
  + - ***On a continuum—pick a piece that works with you—3,6 mos or a year keep working at it. NAME YOUR PAGES AS YOU WORK so when you have 75 or 100 pages you can easily filp back and forth to items you need.***

**After Lunch**

* **Document cameras** essentially an ELMO demonstration but Epson needs a VGA projector.
* **Something to consider:** For schools with SMART boards. Consider purchasing the SMART document camera it works seamlessly with Notebook 10 software it is an ELMO that works with smart boards.
* SMART document camera is powered with the smart board
* It runs at 23 frames per sec.
* It comes with a non-glare sheet to cut glare
* Great for Calculator demos
* Sorting questions for DD, MID, or primary kids
* Good for Mapping skills
* Probability use real dice under the camera
* Shakespeare…bringing the text onto the bigger screen. Shared reading
* SD card for photos slide show
* Takes over from overhead.
* Good for use with Graphic texts no grayscale degradation that occurs with photocopiers
* **SENTEO system clickers for use with SMART boards**. Ver 1 software now available, ver 2 launches in a couple of weeks
* Powered with the smart board
* SENTEO software, receiver, remote are seamlessly compatible with SMART notebook software. SENTEO is a part of notebook software. This is built in as another notebook option it is seamlessly integrated.
* The clickers operate by RF and are not infrared—this means you do not need a line of sight from the clicker to the receiver.
* The SENTEO system is dynamite for Multiple choice, true-false, math etc etc. Using SMART notebook you can create visual questions (like hiding elements on the periodic table or placing events on a historic timeline and so on)
* SENTO software automatically converts multiple choice tests from Word into a SENTEO quiz in one step…the software does it all. (This is simpler and less wasteful than other multiple choice tests even scantron.
* Teachers can also use anonymous mode—which will allow for formative or review type situations—with instant feedback to the student and teacher as to what areas need remediation. Anonymous mode is good for pre-testing questions for your class. Assess prior knowledge
* Teachers can include video and audio within their quizzes.
* Included in SMART notebooks is “clicker” simulator software. A picture of the clicker appears on the SMART board allowing the teacher to walk the students through the power up, set-up and active testing processes used in the clicker process.
* SENTEO CLICKERS
* 24 $1600
* 32 - $2100
* Resources
* **Online essentials for educators available through SMART website**. ***Teachers hub*** website that takes you through SMART notebook software. Getting started/enhance skills. Two minute tutorials available on demand
* Hands on PDF files on aspects of using the software and building lessons etc. based on tutorials
* **Live online training** is offered by SMART. You can register for sessions all live on online. These lessons are a series of sessions that run five days a week lasting about twenty minutes each. You have to have access to a phone inorder to call the 800 number phone link. The conference instructors desktop comes up on your computer and SMART board and the lesson is fully interactive. Some other points on interest regarding the live online training:
  + Typically there are five of six people per session
  + NO COST associated with the training it is all included with the SMART board and software.
  + You can also connect with SMART for a session specifically for your school
* The lesson activities have apparently improved over what they once were. They are curriculum related and cover all of the grades and Smart builds in the interactivity.
* Teachers can use and adapt these lessons for anything they want education wise.
* The LESSON ACTIVITY TOOLKIT was a big focus of the whole presentation and Flash and the fact that Flash videos are embedded not just shortcuts is hugely important.