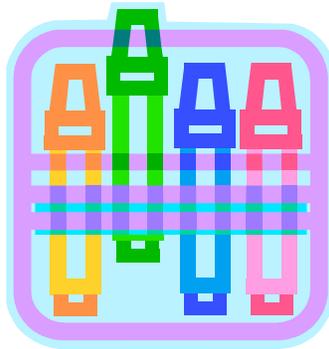
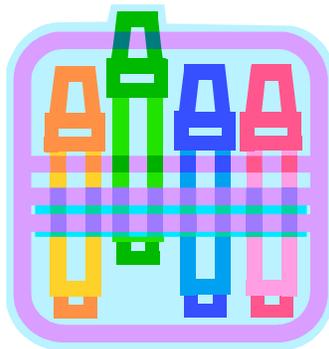


Using the SMART Board in the Classroom

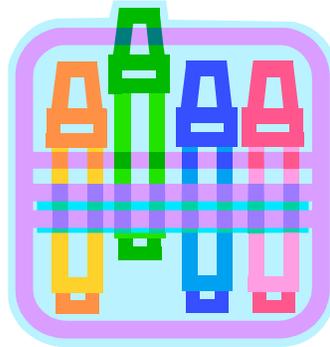


The SMART Board is an interactive whiteboard that turns your computer and data projector into a powerful tool for teaching and presenting. With the computer image projected on the Board, simply use your finger and press on the large touch-sensitive surface to control the computer. (This allows your students to do presentations from the front of the room instead of having to be at the computer.) Using one of the pens from the SMART Pen Tray, you just write on the board and the touch-sensitive screen tells the computer what color pen you are using and your notes are projected onto the screen in the correct color. You can save these notes on the computer or send them to your printer to be given out as a study aid. These are just a couple of the many uses for this wonderful tool.



Equipment Needed:

SMART Board
Serial Cable
Digital Projector
CPU (with SMART Board software installed)



Setting Up Equipment:

1. Install SMART Board software on the computer you're going to use if it's not already on the machine.
2. You connect the cables as follows.



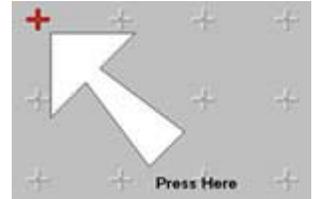
Make sure the computer is switched OFF! This is very important as connecting them to a live computer could blow a small fuse on the circuit board, which is expensive to repair. Locate an available COM port at the rear of the computer (most computers have at least two) and connect the cable, making sure to tighten the small locking screws. Remove the mouse from the mouse port and connect the cable. Now connect the mouse to the socket on the Smart board cable.



Now connect the other end of the cable to the SMART board taking care not to damage the socket. Turn on the computer and press DATA on the LCD projector. The computer will now go through the normal boot up process. Log on the computer with the username Teacher / password Teacher. You can now position the LCD projector so that the display is sharp and covers as much of the board as possible.



3. Turn on the projector
4. Turn on the computer (be sure to do this after the projector)
5. Resize and focus the projector image on the SMART Board
6. Click on SMART Board icon in the bottom right-hand corner of the monitor
7. A pop-up window will appear- click "orient"
8. When asked the type of calibration wanted, highlight the highest (80)
9. A series of crosses will appear. You will be prompted to touch the screen in the middle of the crosses. Just follow the instructions on this one.
10. After you've calibrated the screen, you are ready to interact with the board. Simply use your finger as you would your mouse.



Information about the SMART Board

Highlights:

Interact

Touch the Board to control any computer application.

Create

Write notes, draw diagrams and illustrate ideas.

Focus

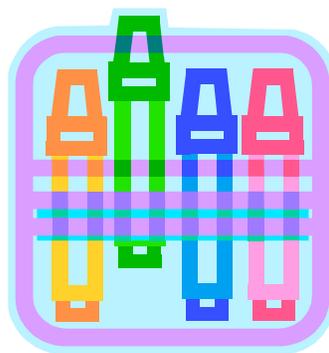
Highlight key information with electronic ink.

Capture

Save, print or e-mail notes.

Simplify

Work naturally at the Board with familiar, easy-to-use tools



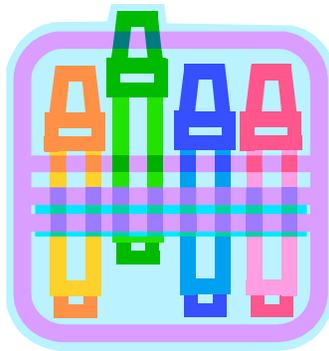
Questions & Answers about the SMART Board

What is the SMART Board?

The SMART Board is an interactive whiteboard. Using the SMART Board, you can:

- Save notes written on the Board to a computer file
- Use your finger to press on the Board to control Windows and Macintosh applications and other multimedia materials projected onto the Board's touch-sensitive surface. You can then write over top of your applications and save the annotations to a computer file.

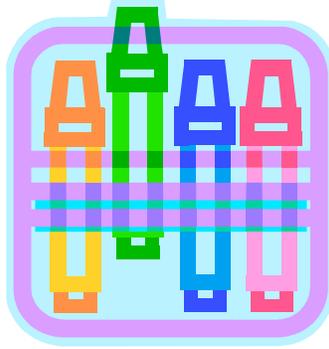
The notes and annotated images can be printed from a computer printer, e-mailed, posted to a network, copied and pasted into other applications or saved as an HTML file. SMART Board Software, included with every SMART Board, dramatically enhances group collaboration.



What does SMART Board Software do?

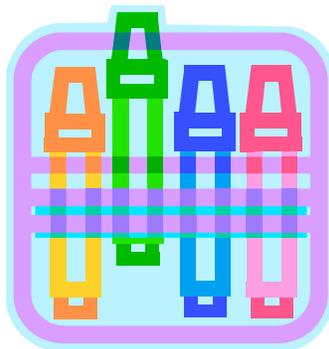
SMART Board Software includes two main components:

- SMART Board driver 5.5: This driver program is the control software for the SMART Board. It handles signals from the Board and Pen Tray and communicates with whatever software is running on the PC.
- SMART Notebook 2.11: This program allows you to save notes written on the SMART Board into a series of pages, similar to writing and saving your notes in a standard spiral notebook.



How does the SMART Board work?

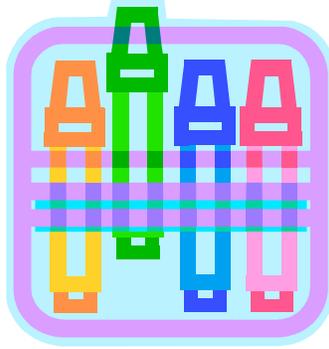
It uses resistive technology, which means there is a small air gap between two sheets of resistive material inside the Board. When you press on the Board with your finger or an ordinary dry-erase marker, a contact point is registered and its coordinates correspond to the same area on the computer screen. Because the SMART Board is based on resistive technology, it does not require a special stylus or pen to perform mouse or pen functions at the Board, only pressure on the Board's surface.



What does SMART Board Software do?

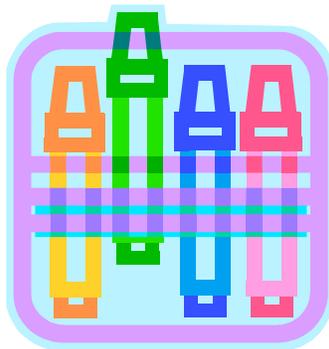
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How does the SMART Board recognize where I write or touch on the Board?

When the SMART Board is used as a whiteboard to record and save notes to a computer file, it automatically maps the position of your writing on the Board to the corresponding area on the computer monitor. When the SMART Board is used with projection for the first time, it will need to be oriented. With the projected image focused inside the board, it will need to be calibrated.



How firmly do I have to press to register contact?

Not hard, but contact with the Board surface must be constant for writing to register. The Board is as natural to write on as a regular whiteboard

How does the system recognize what tool I am using?

When you remove a marker from its color slot on the SMART Pen Tray, the Pen Tray senses which pen (red, blue, green or black) has been selected. When you use the pen to write on the Board, the ink appears on the computer screen in the selected color. Similarly, the Pen Tray senses when you remove the eraser. When you use the eraser to remove writing on the Board, your writing is erased simultaneously from the Board and the computer screen.

What happens if I select multiple Pen Tray tools?

The last tool selected is the tool that is activated. If you replace one of the pens in its slot, then the last tool selected that remains out of its slot is active. An illuminated LED indicator makes it easy to know which tool is active

How durable is the screen surface?

The Board surface is highly durable hard coat polyester. There is no noticeable wear and tear on the surface from normal use. However, sharp instruments will mar or cut the Board surface.

Is there a special cleaner that should be used with the Board?

No. To remove finger oils, simply clean the Board with Windex. If permanent markers are used on the Board, you can erase them using a readily available cleaning solvent.

What computer applications can I use with a SMART Board interactive whiteboard?

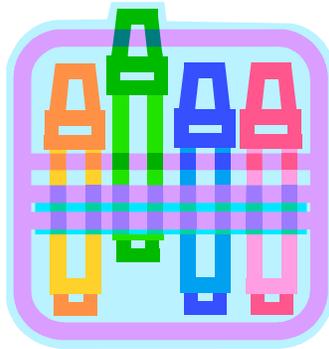
You can use any point-and-click application you have on your computer - including Internet browsers, spreadsheets, interactive CD-ROMs and word processing programs. Commonly used applications include PowerPoint, Hyper Studio, Excel, Word, Internet Explorer, NetMeeting and many others

What type of projector or plasma display panel can I use?

You can use any digital projector to display your desktop on a front-projection and In-Wall *Rear Projection* SMART Board interactive whiteboard.

Can I right-mouse click?

Yes. The SMART Pen Tray has two control buttons - one to activate the on-screen keyboard and one to right-mouse click. When you press the right-mouse button, your next touch on the board will be a right-mouse click.



Ways to Use the SMART Board in Your Classroom

- Presentations, music lessons, digital slide shows
- PowerPoint presentations done by students and teachers.
- Lectures and teaching, especially math.
- Use it for assemblies and to show kids something you need to get across.
- Bring up a map and show a route and have the students describe using N.S.E.W. directions.
- As a class, create a slide show. Use Inspiration and the web. Students can do their presentations, make reports, etc. Create a class quilt about each person - Who I am
- Create digital portfolios.
- Save lessons to present to students who were absent.
- Teach computer skills and keyboarding.
- Write stories and proofread them as a group.
- Brainstorming.
- It is an ideal way to teach students the toolbars and the purpose of each icon on the computer
- Do daily language on Smart Board. Have kids come up and make changes using editing and proofreading marks. Also use highlighter tool to highlight nouns, verbs, adjectives, etc.
- Use it with Kidspiration. The Smart Board would lend itself perfectly for this for as a whole class brainstorming or for individuals presenting their ideas.
- Preschool computer learning to let the group play at learning and avoid mouse dexterity problems.
- In an art class.
- Illustrate and write a book. The recorder feature is a good idea. Teachers can truly become facilitators in the classroom.
- View PowerPoint presentations.
- Group Internet searches.
- Put out a final lesson or a slide show so that students could show their family what they did in the computer lab that day.
- Use the "record" feature to make a short movie to demonstrate steps in using computer software. Example - Teaching Adobe Premier - record a short movie of "Importing a Still Image." Make a lot of short movies with an index. Create a "How To" CD for class/students to use.

- Use the SMART Board to prepare a lecture and training sessions and burn it to a CD. Then use it for "substitute lesson plans" on a day you have to be gone. No more lost time when the teacher has to be out and very easy for the substitute to deliver!
- Science - creating a diagram of a cell, electrical circuit, water cycle, etc. Create a slide show where each component is added, labeled and put as a separate slide so you can build something in sequential steps. Then save to computer for review or information for kids who were absent or need review. Literacy - Put passage on screen and have kids underline or highlight or mark key information for discussion or better understanding of passage.
- During parent/teacher conference, the taped original presentation is shown to parents and the original work could be considered a draft. Students can go to draft presentation and make corrections. Teachers and parents can then view and hear corrections or though processes of learning and revising.
- Use in library to teach library automation system and catalog searching.
- Student math problems on board.
- You can hook up a VCR to the SMART Board and view movies.
- Graphics and charts with second language learners and special education students.
- Use the SMART Board to assist in creating a school yearbook.
- Grammar practice - write words that make a sentence. Scramble the words and have the kids to together the words to make their own sentences.
- When doing presentations, questions from the audience can be written with the answers. All the questions and answers can be sent to the participants.
- Write a daily newsletter article with students. We discuss what we learned that day and write a paragraph about it. Students use the on-screen keyboard to help with writing the article. Add digital camera pictures, clipart, etc. At the end of each week, print the newsletter and students take it home.