Classrooms without Boundaries
Expanding pedagogical opportunities to improve learning outcomes

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Full schedule inside

THE FUNDAMENTALS of the flipped classroom

FIND OUT HOW to reset your page in SMART Notebook software

LEARN NEW WAYS to use your iPad with SMART products

Five reasons to use SMART NOTEBOOK 11 SOFTWARE
FROM THE EDITOR

Classrooms without Boundaries

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As the school year comes to a close, it’s also the start of the International Society for Technology in Education (ISTE) annual conference and exposition. ISTE is a special time for us at SMART, because we have the privilege of meeting so many of you at the conference. If you will be attending ISTE in San Diego at the end of the month, please stop by booth 3313 and say hello. As always, we have lots to share with you. And be sure to read pages 6–7 of the magazine, where we give you a sneak peek of what SMART is planning for ISTE this year. If you can’t attend ISTE, you can visit the EDCompass blog, edcompassblog.smarttech.com, each day of the conference, June 25–27, for regular coverage and updates from SMART’s booth.

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We are already looking forward to the upcoming school year, and this month’s issue is loaded with resources and information you can use to create a classroom without boundaries – and to make each school year more memorable than the last.

Shari-Lynn Sare, MANAGING EDITOR

EDCompass

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As always, you can e-mail any questions or feedback about EDCompass magazine or the blog to EDCompassfeedback@smarttech.com.

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Shari
Shari-Lynn Sare, MANAGING EDITOR
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The Traditional Classroom
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The Flipped Classroom
Teacher’s Role: Guide on the Side
I was excited to be one of the SMART Exemplary Educators who had the privilege of testing SMART Notebook 11 collaborative learning software with my kindergarten class before its April launch. Following is a countdown of my five favorite features of SMART Notebook 11.

5. **Reset page** – You can take your SMART Notebook software page back to the last saved incarnation with one touch – it’s great when sorting, sequencing or working with objects and digital ink.

4. **Contextual toolbar** – This feature takes key features from the Properties tab and adds them to the toolbar. Because the toolbar changes to match the selected object, there is no more clicking between tabs!

3. **Shape fill** – You can now fill in hand-drawn shapes, provided they are enclosed. For guessing games and math or art lessons, draw a shape, fill it and then select Clear Ink so just the silhouette “filling” is left.

2. **Embedded Internet browser** – You can now insert an Internet browser directly into your SMART Notebook software page and set a target website. When your page opens, so does the website.

1. **Activity Builder** – A new feature that has its own tab alongside the Gallery and Properties tabs in your SMART Notebook file, the Activity Builder is great for creating sorting activities. Choose a target object to capture selected objects, and then choose which objects on your page are accepted or rejected by your target. You can even make multiple targets on one page, and objects can be accepted or rejected in multiple categories.

To read more about my five favorite features, visit the [EDCompass blog](#). And, I’ll be presenting my 10 favorite features of SMART Notebook 11 at SMART’s booth at ISTE. If you’re attending, please drop by booth 3313 – I’d love to hear how you’re using the software! I’ll also be blogging from SMART’s booth.
Have your say...

We asked what you feel the most important source of funding is for your school.

- **32%** Regular school funds
- **25%** Parent-teacher association
- **25%** Federal or state grant programs
- **10%** Local fundraising
- **5%** School modernization or construction
- **3%** Other

Your Vote

Are you using iPad in your classroom? If so, how?

Vote

Up Next

JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG
SEP  OCT  NOV  DEC

Read the next issue of EDCompass magazine, when we welcome you back to the classroom with helpful tips for using your SMART products.
Visit SMART at ISTE

JUNE 25–27, 2012, SAN DIEGO CONVENTION CENTER, SAN DIEGO, CALIFORNIA, BOOTH 331

For many of us, June is one of the best months of the year. Not only does it signify the end of another school year and the beginning of summer, but it’s also the time when educators throughout North America and abroad converge at ISTE’s annual conference and exposition. In its 33rd year, ISTE is one of the world’s premier educational technology events.

If you regularly attend ISTE, you know that SMART is there every year showcasing our latest innovations and demonstrating new ways you can use SMART products in a range of subjects and for all classroom environments. And this year is no exception. We have a packed presentation schedule, daily prize draws and live classroom sessions with teacher Allen Brooks and five of his students.

The live classroom setting in SMART’s booth will be outfitted with a SMART Board® 885ix interactive whiteboard system, a LightRaise™ 40wi interactive projector, SMART Document Camera™, SMART Response™ interactive response systems and more. Visitors to the booth will have a chance to see firsthand how seamlessly SMART products work together to expand opportunities for collaboration and engagement. We’ll also be demonstrating how you can use your iPad with SMART products.

In addition to the live classroom sessions, SMART Exemplary Educators will be giving presentations covering a variety of topics, including the flipped classroom model and student-centered learning, finding funding to improve accessibility in the classroom, making the most of technology products in early education and encouraging collaboration among English language arts students. SMART staff and teachers will be on hand to demonstrate our products, answer questions and introduce you to new tips and tricks to try with your SMART products.

Not attending ISTE? We’ve got it covered!

Visit the EDCompass blog each day of ISTE to get daily updates from SMART’s booth and reviews from our SMART Exemplary Educators. You can also search for ISTE 2012 on the blog to read all the current posts from the show.
SMART’s presentations at ISTE 2012

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<tr>
<td>10:00 a.m.</td>
<td>Live Technology Class</td>
<td>Allen Brooks, Teacher, and his students, San Elijo Middle School, San Marcos, California</td>
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<td>Prize Draw!</td>
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<tr>
<td>11:00 a.m.</td>
<td>Presentation Multiple Interactive Whiteboards and Displays and Small-Group Collaboration</td>
<td>Dave Effron, Teacher, Starling STEM Middle School, Columbus, Ohio</td>
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<td>12:00 noon</td>
<td>Presentation Using Differentiation and Response to Intervention to Improve Literacy</td>
<td>SMART-Accredited Third-Party Publisher PCi Education</td>
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<td>2:00 p.m.</td>
<td>Presentation Distance Learning Using SMART Products and iPad</td>
<td>Joey Savoy, Technology Mentor, School District 16, Miramichi, New Brunswick</td>
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<td>Live Science Class</td>
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<td>Presentation The Flipped Classroom and Student-Centered Learning</td>
<td>Dan Bohn, Math Teacher, Hononegah High School, Rockton, Illinois</td>
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<td>12:00 noon</td>
<td>Presentation Impact Your Learners by Increasing Their Global and Cultural Awareness</td>
<td>SMART-Accredited Third-Party Publisher Herff-Jones Nystrom</td>
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<td>2:00 p.m.</td>
<td>Presentation Making the Most of Your SMART Products in Early Education</td>
<td>Heather Sloan, Kindergarten Teacher, Oak Hills Elementary School, Oak Park, California</td>
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<td>4:00 p.m.</td>
<td>Live Science Class</td>
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<td>Presentation Formative and Summative Assessment, English Language Arts and English Language Learning</td>
<td>Sarah Lornston, English Language Arts Teacher, Mahtomedi High School, Minneapolis, Minnesota</td>
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<tr>
<td>11:30 a.m.</td>
<td>Grand Prize Draw!</td>
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SMART Notebook lessons

With more than 15,000 ready-made or customizable SMART Notebook lessons on the SMART Exchange™ website, you can be sure your curriculum stays fresh and exciting. You can find a growing database of lesson content for all grades and subjects – many of which are standards correlated – created by classroom teachers or by SMART's team of curriculum resource developers.

You can also search for Common Core State Standards–correlated lessons for math and English language arts by clicking the Standards-Correlated Lessons button in the top navigation bar on the home page of SMART Exchange.

Here are a few lessons created by teachers that you can try with your students.

The Skeletal System
Third-grade science students can learn about the skeletal system and analyze its main functions.

Symmetry
Fourth-grade math students can learn about the lines of symmetry by using polygons and other objects.

Passive Voice Review
Seventh- and eighth-grade English students can learn about passive voice by reading sentences that are missing words and filling in the blanks to complete the sentence.
SMART Response question sets

SMART Exchange also offers a growing number of SMART Response question sets, most of which are correlated to state and provincial curriculum standards. The website contains hundreds of activities for all subjects and grade levels.

To make your search even easier, download the Search Widget for SMART Exchange and post it to your website to quickly and easily find content to supplement your lessons.

Download the instructions for posting the widget to your site.

Here are a few SMART Response question sets to try in your next class.

**Beginning Sounds**
Kindergarten students can learn the beginning sounds of words by matching pictures and words that have the same beginning sound.

**Elements of a Story**
Ninth-grade English language arts students can learn about various elements within a story.

**Congruence and Symmetry**
Math students in grades 2–4 can test their knowledge of congruence and symmetry.
SMART Table® activities

Developed specifically for early education classrooms, check out the growing number of activity packs for the SMART Table interactive learning center on the SMART Exchange website. You can search by topic, subject or grade level to access hundreds of activities for your SMART Table. You can use SMART Table activities with small groups to complement whole-class and individual learning experiences. Most activities correspond to a SMART Notebook lesson and SMART Response question set.

Following are a few SMART Table activities you can try in your next class.

Using Water
Kindergarten students can learn about the many uses of water and the methods of water conservation.

Music Notes
Kindergarten students can develop listening skills and visual representation by identifying notes and note patterns and the relationship between the note and the sound.

Writing Friendly Letters
Third-grade language arts students can learn how to write a letter with a friendly tone.
Along with the wealth of activities available on the SMART Exchange website, did you know you can find a variety of images that can be used to enhance your lessons and give students a better understanding of subject matter? The images are created by SMART or well-known education publishers such as Robots and Cupcakes and Interface3. You can find everything from landscapes and cityscapes to plants and animals to background images, templates, diagrams and worksheets.

Here are a few images you can use in your next class.

**Handwriting Worksheet**

*Large*

Students can use this worksheet to practice handwriting.

**United States Map**

Students can practice their geography skills by naming and labeling the U.S. states and territories.

**Purdy’s Problem and How She Solved It**

A third-grade reading unit that includes several additional activities in the attachments tab of the SMART Notebook file.
SMART Notebook Tips

From You and For You

SMART Notebook software is a powerful tool for creating and delivering lessons. And that’s why we bring you SMART Notebook Tips each month. In fact, the results of our recent reader survey showed that SMART Notebook Tips is one of the most popular parts of the magazine – and you would love to see even more. You recognize it’s important to continue learning new ways to use the software, whether you’re a beginner or a seasoned user.

Because you’re using SMART Notebook software every day, you probably have some favorite and helpful tips of your own. That’s why we’ll be introducing a new column in the August back-to-school issue called SMART Tip from a Teacher, where if your tip is featured, you’ll be recognized in the magazine! Your tip can be for SMART Notebook or any other SMART product.

While using SMART products or creating your activities, have you discovered something that has made your life in the classroom easier? Do you have a favorite feature or a way of doing something that you couldn’t imagine living without? If you’ve discovered something that has made creating and delivering lessons easier for you, it likely will for others, too. Let’s share them in this new column. Your tips might also appear on the EDCompass blog.

E-mail your tips to EDCompassFeedback@smarttech.com, along with your name, school and district. If your tip is chosen, we’ll contact you to let you know when your tip will appear in the magazine.
Along with the new column, the magazine will still include *SMART Notebook Tips*. Following is the tip we wanted to share with you this issue.

**Resetting your SMART Notebook software page**

Now you can reset your SMART Notebook software page to its original state. If students are completing activities on the SMART Board interactive whiteboard, you can quickly and easily return the page to how it originally appeared, making it ready for the next student.

**Three easy steps**

1. Alongside your SMART Notebook software page, find and select the Page Sorter tab to see all the pages in your file.
2. Find and select the page in the sorter that you would like to reset and click the arrow on the top right of that page.
3. A drop-down menu will appear. Select *Reset Page* and your page will instantly return to its original state.

You can also find *Reset Page* in the Edit drop-down menu on the top left of your file.

If you don’t have SMART Notebook 11 yet, there’s another easy way to reset your page using Page Recorder.

1. Before students come up to the SMART Board interactive whiteboard to complete an activity in SMART Notebook software, click the Properties tab alongside your page and open Page Recorder.
2. Click *Start Recording*, wait one or two seconds and then click *Stop Recording*.
3. When students are done interacting with the lesson, scroll to the bottom of the page to find the Recorder toolbar. Press *Play* or *Rewind* and the page will appear as it did before students completed the activity.

**Download SMART Notebook 11 software.**
The Flipped Classroom

In 2007, science teachers Jonathan Bergmann and Aaron Sams at Woodland Park High School in Woodland Park, Colorado, started recording lectures for students to watch as homework and using class time to guide students as they worked on assignments, creating the flipped classroom model. Since then, flipped classrooms have been popping up in schools throughout North America. In fact, departments—and even entire schools—have begun using the flipped classroom model. Teachers say that “flipping” helps students develop a deeper understanding of classroom materials, reduces failure rates and improves test scores.
The Flipped Classroom

n. A model of teaching in which students’ homework is the traditional lecture viewed outside of class on a video. Class time is then spent on inquiry-based learning that would include homework assignments.

By Wendy McMahon

Classroom 101

in which students’ homework is the traditional lecture is then spent on inquiry-based learning that would include homework assignments.
The basics of the flipped classroom

Bergmann, who is now the lead technology facilitator at Joseph Sears School in Kenilworth, Illinois, says the basic premise of the flipped classroom is simple. “Make videos, make them available to your kids and do what you wanted to do with your kids in the first place.”

Although the options for personalizing your flipped classroom are almost limitless, following are the basics of flipping:

Create short videos – 15 minutes or less – of your lectures. You can take actual video of yourself delivering a lecture or use tools such as SMART Recorder in SMART Notebook collaborative learning software to create a screencast of lecture notes accompanied by your voice. Because you won’t need to pause for questions, discussion or practice time, 15 minutes should be enough time. Alternatively, you can use videos created by other teachers on websites such as Khan Academy, Flipped Learning TV or the recently launched TEDEd resource.

Determine how many students have high-speed Internet access at home and provide alternative methods for those who don’t have access. Bergmann and Sams have burned their videos to DVD for some students, while other teachers have allowed time before and after class for students to watch videos on a classroom computer, iPod or iPad.

Post the videos online so students can access them. You can use YouTube™, Vimeo or your school network – whatever works. Students must be able to access the videos during and after school hours.

Develop a student-centered classroom where you use class time to assess, support and encourage learning as students work through related assignments, projects and labs.
There is no “right” way

According to Bergmann, many teachers who want to flip their classrooms are unsure of the “right” way to do it—they don’t know what should be covered in the video and in class. Because flipping is a model that can be personalized, Bergmann helps teachers determine how their flipped classrooms could look. “This is the question I almost always lead with now during a presentation—‘What is the best use of your face-to-face class time?’ Answer that question and then figure out if there is something you can offload to be taught somewhere else.”

For physical education teachers, this could mean using class time strictly for physical activity and then covering lessons in a video. English teachers trying to fit grammar lessons into class time could have students view video lessons at home. And physics teachers could cover the day’s lesson with a video and use class time for a hands-on lab, providing extra time for answering questions, checking student work and ensuring everyone understands the concept.

The flipped classroom in action

Troy Faulkner, a teacher and head of the math department at Byron High School in Byron, Minnesota, has been flipping his classrooms for two years. During the past year, the entire math department has switched exclusively to the flipped classroom model, with other teachers throughout the district moving in the same direction.

As Faulkner explains, teachers in his department use SMART products to support their flipped classrooms. They use SMART Recorder in SMART Notebook software to create lecture videos that record not only their voice but also anything they do on their computer. Some teachers do this using their SMART Board interactive whiteboard while others use the SMART Slate™ wireless slate to write notes and record lessons at home or at their desk. Teachers then post their lectures on YouTube, embedding them in Moodle™ for students to view at home without the distractions of the YouTube site.

Teachers also use SMART Document Camera to show related visuals or student work and the SMART Response XE interactive response system for formative assessment during class time.

Faulkner says SMART Response XE has been the key to his school taking the flipped classroom model to the next level. “With the flipped classroom, there is a lot of collaboration that occurs in the room.
between students, so it is important to have a small amount of time during class where students are working on problems by themselves, without the help of notes and others – hence the formative quizzes.”

Students typically arrive in Faulkner’s class to find two or three problems written on the SMART Board interactive whiteboard. The problems are designed to check students’ understanding of the material from the video or material covered the previous day. As students work on their math “homework,” they aren’t sitting at the kitchen table struggling to complete an assignment alone. Instead, they’re sitting in the classroom, with easy access to support from their teacher and peers. Students are free to discuss, debate and work out the problems with their peers. They can form their own groups, rearrange their desks – whatever helps them work best. If there is a concept that many students are having difficulty with, Faulkner will go to the SMART Board interactive whiteboard and discuss it with everyone.

For Faulkner, being available to students is the key to a successfully flipped class. “It’s very important that teachers are out there with the students the whole time and not at their desk, because students are more likely to ask you a question if you come walking by them.”

Faulkner says the flipped classroom helps students learn at their own pace. “It’s great for high flyers who can zip through, while those who struggle can pause and rewind as much as they want.” As a result, he’s noticed that students are taking more ownership of their learning.

**Student-centered learning**

At Allen ISD in Allen, Texas, instructional specialist Jason Baughman has helped flip 37 classrooms during the 2011–12 school year. Teachers in flipped classrooms either record their lectures with a webcam or create screencasts using their SMART Board interactive whiteboards and SMART Recorder.

Baughman says flipped classrooms shouldn’t just consist of students sitting at their desks doing homework. “Sometimes you’re working through problems in math and science, but that’s not always the focus.”

Instead, teachers who are flipping their classes need to create a student-centered classroom. “It’s not about the teacher standing up and delivering a lesson anymore – it’s about the students understanding the content. Teachers need to ask themselves, ‘How am I going to be a facilitator as opposed to a lecturer?’”

To do this, Baughman tells teachers to think through a series of questions when they are planning class time. “Ask yourself, ‘How can I get the students to be involved? How can I get them to create a product that shows that they have learned this content? And how can I get them to teach the other students in the class using that product?’”
The flipped classroom gets results

How does a flipped classroom actually affect learning? Bergmann, Faulkner and Baughman all report seeing higher test scores since implementing the flipped classroom model.

Baughman says the algebra and physics departments at Allen ISD have kept data, and they’ve discovered a decrease in failure rates and an increase in the number of A’s and B’s their students are achieving.

At Byron High School, Faulkner says the number of A’s and B’s is dramatically increased for students in the flipped classrooms. Geometry failure rates have decreased from 13 percent to 6 percent, and, last fall, there were no students with D’s or F’s in the algebra 1 class. “We’ve never had a class before where we had no D’s and F’s, so that was exciting to us,” says Faulkner.

For Bergmann, the magic of the flipped classroom is that students start taking control and ownership of their own learning. “The teacher’s job in the flipped classroom is to walk around helping students. As you help kids, the kids realize that they actually have to learn the content.”

When he was teaching in a flipped classroom, students were required to take tests at the end of a unit to show they had mastered the content. If they hadn’t, they were required to repeat the unit.

“It was frankly the best thing we taught them. It wasn’t the chemistry or whatever topic I was teaching at the time. It was, ‘I’ve taught them how to learn.’ And I think that’s the more valuable lesson. Because in this information-saturated world, it’s more important to learn how to learn than it is to learn a particular topic that may be outdated or changed soon.”

Want to learn more?

There are plenty of opportunities to learn more about the flipped classroom, including the recently launched Flipped Learning Network, created by Bergmann and Sams. This nonprofit site is designed to be the primary resource for teachers wanting training on the flipped learning model. Bergmann and Sams have also written a guide to flipped learning, Flip Your Classroom: Reach Every Student in Every Class Every Day, scheduled for release this month.
SMART Notebook App for iPad Coming Soon!

With the upcoming release of our SMART Notebook app for iPad this summer, you and your students will soon be able to use a light version of SMART Notebook collaborative learning software on your school-owned or personal iPad. The new application will enable you to transition between whole-class, small-group and personalized learning and enjoy the engaging lesson materials of SMART Notebook software anywhere, anytime.

Using the SMART Notebook app for iPad, your students can access many of the tools they use on the SMART Board interactive whiteboard. They can open SMART Notebook files on their iPad from an e-mail or file-sharing website, and they can write, erase, add text, move objects and insert images. Your students can even use the iPad camera roll to drop images into a SMART Notebook software page. They can also use their iPad to review material and complete activities that they can save and e-mail to you.

Learn more about how you can use your iPad with SMART products in the product spotlight on page 24.
Want to Help Us Shape the Next Gallery for SMART Notebook?
We’re inviting you to test-drive the beta of Gallery 2.0 in SMART Notebook 11 and experience the power of online and offline Gallery resources for your lessons. With a single search, you can find images, interactive tools and a variety of Gallery content, either on SMART Exchange or saved on your computer. The new Gallery will enable you to search, browse and manage Gallery content using an additional tab that has been added to SMART Notebook 11.

To start exploring Gallery 2.0, sign up for the Gallery 2.0 Beta in SMART Notebook by selecting SMART Notebook Gallery 2.0 Beta and filling in your name and e-mail address.

Three Days Left – Hurry for a Chance to Win!
Over the past six weeks, we’ve given away almost US$10,000 in prizes for the Amazing Learning Moments contest. And you still have three days left to enter. The more times a school is named as a designated recipient, the better its chances of winning. Spread the word and keep entering until Friday, June 15, 2012.

Watch one SMART Exemplary Educator’s amazing learning moment and then enter for a chance to win a prize from SMART.

Read the terms and conditions, and enter the contest.
Creating a Foundation for Student Success

By Stacy Kindopp

San Elijo Hills in San Marcos, California, is a beautiful, master-planned community designed with a small town atmosphere. Residents enjoy concerts in the square, picnics in the park, gorgeous walking trails and breathtaking ocean views.

The popularity and growth of this family-friendly community brought two new schools to the San Marcos Unified School District, including San Elijo Middle School (SEMS), a SMART Elite Showcase School located in the heart of the community.

Since the school’s inception in 2004, SMART products have been an integral part of the teaching approach. “The vision I had coming to SEMS was to address the needs of the whole child – academic, social, emotional and physical – and to integrate technology into the curriculum,” says Principal Douglas Hall. “SMART products were and continue to be the backbone for this journey.”

Allen Brooks, a SMART Exemplary Educator and the technology teacher at SEMS, was still working on his teaching credential in the summer of 2004 when he volunteered to help the school prepare for the academic year. “I remember being surrounded by gigantic boxes from a company called SMART Technologies. I popped open a SMART Board and within a day I was addicted,” says Brooks.

In its first year, the school had 15 SMART Board interactive whiteboards. “We quickly saw the impact they were having – it became so apparent that SMART products not only measurably engaged students, but they also changed the way teachers taught,” says Brooks.

Today, the school has SMART Board interactive whiteboards in each of its 54 classrooms. Throughout the school, there are also 40 SMART Slate wireless slates, 2 SMART Podium™ interactive pen displays, 10 SMART Document Cameras and 3 SMART Response interactive response systems.

Teachers use SMART Notebook collaborative learning software daily. Complementary SMART products, including SMART Classroom Suite™ interactive learning software, SMART Sync™ classroom management software, SMART Notebook Math Tools software, SMART Ideas® concept-mapping software and Bridgit® conferencing software, play key roles in many of the school’s learning environments.

“Students need to be engaged and have opportunities to actively participate in their learning. Our student-centric approach using SMART products is helping our students and staff thrive,” explains Hall.
Che Love, a history teacher at SEMS, moved his entire curriculum into SMART Notebook software. “It enables me to support my verbal instruction with visual materials and invite students up to the interactive whiteboard to manipulate information – I’m able to reach the learning styles of every student,” says Love.

And SMART products have had a clear impact on student performance in Love’s classroom. “Before using SMART products, 60 percent of my students scored proficient or advanced on California Standards testing. Since I began using SMART products, student scores have gone up every year. This past school year, 84 percent of my students scored proficient or advanced. That’s a 25 percent change within four years of using SMART Boards and SMART Notebook software. It’s amazing!” says Love.

With all of his curriculum materials in SMART Notebook software, Love feels more organized. “If I were to have an unexpected meeting and walk into my classroom cold, I can pull up my SMART Notebook lesson and I’m ready to go. My lessons include links to supplementary material, enabling me to seamlessly transition between a variety of resources, including audio, movies, worksheets, primary documents and historical pictures. I have a solid foundation to walk into every single day,” says Love.

Allen Brooks teaches in the school’s state-of-the-art computer lab, and he credits SMART Sync for his seamless classroom management. “I’m not wasting teaching time taking roll call and distributing or collecting files – I can start my class while the bell is still vibrating. I have a 49-minute class and I give my students 48-and-a-half minutes of work,” says Brooks.

As SMART products streamline the way teachers create and deliver lessons, they also are expanding students’ potential. “When I look back at initial projects from when I began teaching and compare them to what students are doing now, it’s amazing,” says Brooks.

“When students can see minute details in audio editing, computer-aided drafting and computer programming on the interactive whiteboard and on their computer screens, their understanding is more rapid and performance increases,” he adds.

The computer lab at SEMS has garnered worldwide attention, with visits by educators from Argentina, Brazil, Canada, China, Europe, Japan and the United States. Former Governor Schwarzenegger has also visited the school.

SEMS will be one of the first schools in North America to feature a SMART Collaborative Classroom. The classroom will expand the boundaries of collaborative learning in a technology-rich setting and include a range of SMART products in unique configurations. The teachers at SEMS look forward to hosting educators and sharing their experiences using SMART products.

Brooks will be teaching live classroom sessions with his students at the ISTE conference and exposition in San Diego, California. From June 25 to June 27, he’ll be teaching technology, math and science classes at SMART’s booth, 3313.
How SMART products and iPad complement each other in the classroom

Mobile devices in the classroom – it’s an idea that’s quickly moving from concept to reality in many schools. Seeing smartphones and iPad devices on students’ desks is increasingly common, and education apps are among the top five most downloaded iOS apps, according to 148Apps.biz.

The idea may not be new, but it is one that’s still being explored, defined and refined.

Supporting personal devices

AT SMART, we’ve known the value of personal devices in the classroom for a while, as demonstrated by our 1999 launch of SynchronEyes™ software – now called SMART Sync classroom management software.

The software enables teachers to connect their computer to each student’s computer to guide and focus computer-enabled learning.

And we’ve continued to develop products that support personalized, mobile learning, including SMART Classroom Suite interactive learning software and the SMART Response interactive response system.

But it’s the increasing popularity of iPad that has teachers asking if SMART products and mobile devices can be used alongside each other. We believe they can – that’s why we developed the SMART Notebook app for iPad and the iPad app for Bridgit™ conferencing software.

Using our products with mobile devices can help you achieve the right balance of whole-class, small-group and personalized learning that will make lessons more engaging and meaningful for your students.

Delivering a full complement

Most classrooms have a range of activities that span from all students participating in lessons to students completing exercises on their own. So it makes sense to include technology products that can support and enhance learning in these scenarios.

We offer a range of SMART products designed for these purposes. For instance, a SMART Board interactive whiteboard is great for whole-class collaboration and group work, a SMART Table interactive learning center helps young students learn concepts in small groups and the SMART Response interactive response systems make individual assessments more engaging.

So where does iPad fit?

iPad is an amazing tool for self-paced learning and assessment. It enables students to explore lessons at their own pace – whether it’s using an eBook, an educational game app or multimedia. And its portability gives students access to learning anywhere, at any time.

When used in the same learning environments as SMART products, iPad can help you reinforce concepts and facilitate personalized learning while enabling your students to demonstrate their knowledge.
Here are just a few of the many learning scenarios where SMART products and iPad work together to make learning interactive and engaging:

- **Demonstrating knowledge**
  With the iPad app for Bridgit conferencing software, students can see the desktop of the SMART Board interactive whiteboard on their iPad and control the content on the screen. It’s a great way for students to contribute to a lesson or collaborate on an activity without leaving their seats.

- **Providing insight**
  Whether it’s a formative assessment or a unit test, the SMART Response VE interactive response system makes it easy for you to gain insight into students’ understanding using iPad or another mobile device. The system integrates with SMART Notebook collaborative learning software, so you can instantly create questions in the middle of a lesson or deliver a planned assessment. Students answer questions using their mobile devices, and the responses are automatically tallied for postassessment discussions.

- **Creating and sharing**
  The SMART Notebook app for iPad is our newest product designed for mobile devices. Once installed on their iPad, this light version of our popular collaborative learning software enables students to open existing SMART Notebook lessons or to create their own files. They can write in digital ink, erase, add text, insert images and move objects. And, they can save and e-mail their files to you. The SMART Notebook app for iPad enables students to work on lessons in small groups or complete activities on their own, in class or at home.

As educators continue to explore ways to facilitate this type of blended learning, there will be new ideas and strategies. However, iPad and other mobile devices will only make a difference if they are used to enhance learning and are accompanied by strategies that build on other classroom activities.

At SMART, we will continue to create innovative products that meet your students’ needs, so you will always have access to solutions that support your goals and help make your lessons more extraordinary.

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**Creating digitally enriched classrooms**

Educators at Jamestown Elementary believe in engaging students in learning through interactive ways and by accessing information through multiple means.

That’s why every classroom in this Arlington, Virginia, school is equipped with iPad, iPod touch and SMART Board interactive whiteboards.

Camilla Gagliolo is the instructional technology coordinator at Jamestown Elementary. She says that the three devices complement each other to create a “digital tool set,” making learning interactive and engaging.

“If you have a digital tool set as we do, you will be able to give students a choice – what’s called academic choice. You’ll be able not only to differentiate, but to be able to use creativity to select the tool that fits what you’re trying to communicate in the best way,” she says.

The school has a SMART Board interactive whiteboard in every classroom and its iPad count is now more than 100, enabling teachers to create learning centers where students rotate through activities to access information and express their knowledge in different ways.

“We think of these different technologies as working together for enriching the curriculum with choice, with differentiated resources and with ways for students to creatively express themselves,” says Gagliolo.
PRODUCT SPOTLIGHT

iPad on Your Mind?

Stephan Doyle, a manager of education product marketing, shares why it’s important to create a balance of different interactive products in the classroom to facilitate active, engaging learning experiences.

Why has SMART created solutions specifically for mobile devices, such as an application for iPad?

People traditionally associate us with whole-class learning – SMART Board interactive whiteboards at the front of the room – but there can also be small-group collaboration using SMART Table or four-touch interactivity on the SMART Board interactive whiteboard. SMART believes that technology enables all parts of the blended learning model. So, specifically for individual learning, we think mobile devices are amazing tools for enhancing that type of learning. We’ve been supporting the use of mobile devices for a long time, and with our apps and our other mobile device solutions, we are helping to bring all aspects of interactive, blended learning together.

What are the additional benefits or functionality of iPad in the SMART-enabled classroom?

I think one benefit that iPad adds is that it can connect students to the classroom no matter where they are. With the iPad app for Bridgit, information that’s on a computer is broadcast up at the front of a room on a SMART Board interactive whiteboard, where the teacher can interact with it at the interactive whiteboard and the students can interact with it on their iPad.

What are teachers who are using SMART products and iPad saying about the impact on teaching and learning?

With blended learning, I think the teacher’s role becomes more important. It’s important for the teachers to guide students, to help them understand how to take advantage of that tool, to recognize students can’t just learn on their own – they must learn from others, their peers, in addition to their teacher.

Blended learning also better connects students outside of the classroom to what’s going on inside the classroom. If students are connected outside, it usually means that parents can be better connected, too.

How will the release of the SMART Notebook app for iPad enhance classrooms?

The app is going to enable students to participate more in the creative dimension of learning. Students will go on digital field trips with these devices in their hands – they’ll take photographs, they’ll draw pictures, they’ll insert their thoughts. And teachers and students are going to be able to connect that individual learning to what happens in class. It’ll enhance the two-directional dynamic that I think many teachers are looking for.
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