

THE SANGARI DIFFERENCE:

# Science Powered by Technology



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Technology can never replace the kind of intensive one-on-one, person-to-person assistance to teachers that is the hallmark of Sangari Active Science's program.

But Sangari strongly believes that technology can enable and enhance teaching and learning. When teachers are empowered with state-of-the-art tools, they are in a much better position to help their students master the key science concepts and "big ideas" that are at the heart of our instructional program.

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When teachers have instant access to the necessary data and information they need, they are in a much better position to adjust their instruction.

It is not just about pushing content and information to teachers and students. When blogs, wikis, and other social learning and collaboration tools create communities where teachers can discuss and improve their practice, students benefit. When students and classes can collaborate with other classes across the district or the world, students benefit. When teachers and students have access to our “learning ecosystem,” understanding of the basics of science deepens.

Providing this kind of access is a central part of the Sangari Active Science promise.

### **Content Delivered Digitally**

All Sangari Active Science teachers receive a laptop computer loaded with an enhanced teacher edition that includes images, glossary terms, and commentary—plus the added benefit of embedded video and audio. Video clips demonstrating vital hands-on lessons provide teachers with easy-to-understand directions that dramatically speed lesson preparation, freeing teachers to focus on more central instructional issues and concerns.

The Internet enabled laptop allows teachers to connect to powerful resources via Sangari’s web portal and beyond with a vast number of scientific sources that offer engaging, new teaching tools. From enabling teachers to plan on a dedicated laptop to accessing data on students’ progress in science or using the laptop’s built-in camera to easily collaborate with colleagues from around the country and around the world, empowering educators with technology is a critical part of the Sangari difference.

### **Embedded Assessments**

Sangari Active Science views assessment as a critical part of the teaching and learning process. Technology allows us to integrate assessments seamlessly into the learning process:

*Embedded formative assessments, including open-ended and constructed-response items, provide a check for understanding throughout every lesson. Benchmark tests, aligned to national or local science standards, are given about three times per year, providing feedback to educators on student progress and a blueprint for student strengths and areas for improvement.*

To provide an additional resource for instruction, the Sangari Active Science item bank has a variety of standards-aligned, skill-building items, both multiple choice and constructed response. Teachers can use them to support their instruction of specific concepts, to create their own classroom-level or student-specific assessments.

### **A Teacher Dashboard**

A web-based educator portal gives teachers additional access to information that will help them strengthen their craft:

- A variety of easy-to-use classroom- and student-level reports on student progress, and advice on how to adjust instruction to better support their needs
- Professional development and training tools, including a 10-minute video for each lesson
- Collaboration and training tools, such as blogs and wikis, that will allow educators to collaborate and share best practices with colleagues in different schools, districts, and countries

## Sangari's Evolving "Learning Ecosystem"

### TODAY

Teacher access to all Sangari teacher books and supplementary resources through a dedicated laptop

Student access to Sangari's integrated program through workbooks and hands-on materials investigations

A hybrid formative assessment system that provides high-quality assessment and reporting to teachers on students' progress in science

Student and teacher access to a useful set of collaboration tools, enabling shared experiences such as a global science project (students) or shared instructional practices, reflections, and lesson tips (teachers)

### OVER TIME

Teacher and student access to a "mobile education appliance" provided by Sangari, as well as access to the Sangari virtual learning environment from any web browser with an Internet connection

Student access to technology enabled investigation, visualizations, and significant digital resources

A fully digitally delivered, adaptive, formative assessment tool for students and teachers

Student and teacher access to expanded collaboration and community network tools to tap into the expertise of teachers, experts, and Sangari professionals. Plus parent access to student progress data

## Sangari Active Science

### Relevant, Engaging, Hands-On Instruction

We provide the world's leading investigation-centered integrated science program, serving over 500,000 students in North and South America.

Our curriculum is deliberately structured to take advantage of children's natural curiosity. Instead of a traditional approach that relies on lectures and textbooks and reinforces an artificial division among biology, physics, and chemistry, Sangari Active Science has students spend their time doing interdisciplinary investigations that are organized into 36 modular units.

Within each module, students conduct a number of experiments, each lasting from a few days to a few weeks: asking questions, debating answers, proving and disproving hypotheses, writing up conclusions in their science journals, and regularly showing what they know.

Learn more at [www.sangariglobaled.com](http://www.sangariglobaled.com)



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