Helping Students Learn Math and Science

Adaptive Curriculum creates engaging, interactive courseware as part of the Intel® Learning Series Alliance.

Reaching Digital-Age Learners on Their Own Terms

To take full advantage of the opportunities of 1:1 eLearning, Adaptive Curriculum designed courseware from the bottom up for the digital medium. As a result, its math and science products for grades 6 through 12 are interactive to their core, and the company is a valued member of the Intel® Learning Series (Intel® LS) Alliance.

The company’s approach to teaching math and science starts with extensive pedagogical research. It focuses on helping students investigate, hypothesize, and master concepts. Courseware is built around what Adaptive Curriculum calls “Activity Objects,” which are interactive modules designed to build deep conceptual understanding.

The modular design approach makes the Adaptive Curriculum materials simple for teachers to incorporate into their existing lesson plans. The company also produces Vitamina, a Spanish-language instructional solution created specifically for use in Latin America. This solution shares the same high degree of quality and innovation that are part of all Adaptive Curriculum products.

Adaptive Curriculum and Vitamina solutions create an immersive environment that is based on real-world experiences, tailored to the needs of individual learners. The materials are designed specifically with the Intel classmate PC - Clamshell, Convertible, or Tablet in mind, enhancing integration with Intel LS implementations.
A Flexible, Comprehensive Approach to Technology-Driven Instruction

Adaptive Curriculum products support either small-group or individual instruction in the larger Intel LS context, according to the preferences of individual teachers. The products are designed specifically to be flexible, rather than to dictate a specific teaching approach, while incorporating cutting-edge instructional tools such as interactive whiteboards. Students benefit from a carefully crafted "5E" instructional model:

- **Engage.** Initiates the learning task and captures student interest.
- **Explore.** Provides experiences that develop concepts and skills.
- **Explain.** Focuses attention on a specific topic for deeper inquiry.
- **Elaboration.** Challenges and extends conceptual understanding.
- **Evaluation.** Assesses understanding and proficiency.

Because the Adaptive Curriculum products are designed to fit into and enhance existing educational environments, they are aligned with commonly used textbooks. In addition to the general math and science subject matter for grades 6 through 12, more specific curricula are offered, including algebra I, algebra II, geometry, physics, biology, chemistry, and integrated physics and chemistry.

The Adaptive Curriculum environment complements the rest of the 1:1 eLearning environment that Intel LS helps enable in terms of differentiated instruction. Various students can work on specific lesson plans (either to support multiple tracks within a class or individualized courses of instruction, as needed). The self-guided approach to evaluation can be used to encourage review of Activity Objects as needed to help students achieve mastery of material.

Academic subject matter experts from Arizona State University assist in guiding pedagogical research at Adaptive Curriculum. They help identify the most challenging standards and objectives faced by students, and those issues are prioritized in the company’s products. Working with the relevant Activity Objects, the researchers provide guidance about the materials that need to be addressed through the next selection of Activity Objects. This process is ongoing, with field research helping to align Adaptive Curriculum’s products with the needs of the company’s customers.

Assistance to Schools with Standards Compliance

Where alignment with specific educational standards and testing criteria is vital, Adaptive Curriculum meets a wide range of local standards, as well as those of the National Council of Teachers of Mathematics (NCTM) and National Science Teachers Association (NSTA). The environment is well suited to the needs of individual and group preparation for state exams. In addition, Adaptive Curriculum is compliant with the Sharable Content Object Reference Model (SCORM) and associated Learning Management Systems.

Rich accommodations for special-needs students include options in the areas of auditory or visual instructions, keyboard alternatives to mouse control, captions, variable font sizes, and other visual attributes. The environment also provides all content and ancillary materials, including teacher and parent guides, in both English and Spanish to support the English language learners (ELL) population.

Adaptive Curriculum’s implementation and professional development team provide comprehensive face-to-face and web-based resources to help teachers rapidly and effectively integrate the products into their classrooms. With Adaptive Curriculum and Vitamina, educators get a powerful set of tools for teaching math and science. Today’s digital-minded students become deeply engaged, with state-of-the-art interactive learning.
Adaptive Curriculum provides trustworthy and relevant information created specifically for different learning levels that allows students to safely search through multiple resources from one location without teachers having to worry about the veracity of the information they are navigating through. Britannica’s digital products offer students a single source for information gathering that teachers know they can trust.

Intel® Learning Series has implemented more than 200 education programs globally to help prepare students for success in the twenty-first century global information economy. Working with governments, policy makers, and local vendors, these projects advance professional development for teachers, improve educational quality for students, and spur local economic growth.
Intel® Learning Series
Advancing Education Worldwide

Take the Next Step
Learn more about how Adaptive Curriculum transforms math and science education as part of the Intel® Learning Series Alliance, helping every student excel.

www.AdaptiveCurriculum.com
www.VitaminaEducacion.com
www.IntelLearningSeries.com