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## Valiant USA Product Fact Sheet



### **MathAmigo<sup>®</sup>** **Your Helping Hand**

*MathAmigo* is K-8 standards-based math software for handhelds, laptops, tablets and PCs. It features more than 3,000 activities on topics ranging from counting to pre-algebra at a fraction of the cost of other comprehensive math products. The activities test students' understanding of concepts, offer an engaging platform to practice their knowledge and encourage problem solving. Students can use the program daily without repeating a question.

*My students pull out MathAmigo while they are waiting to perform at a school concert, even while waiting for the bus to arrive. To the students, MathAmigo is fun yet enables them to improve their math skills.*

Kenton Morrison  
Fifth-Grade Teacher  
Evergreen Elementary  
Fort Lewis, Wash

The PC-based *MathAmigo* Manager enables teachers to quickly and easily plan daily math lessons individualized to each student, from struggling to gifted learners, and provide instant feedback. Teachers can monitor student progress and create assessment reports that illustrate students' needs. Real-time alerts immediately show teachers which students need help at the time they need. The program is able to detect students' abilities as they work and can automatically adjust to challenge students or reinforce concepts.

Valiant recently released Version 4 to offer enhanced navigation, search functions and help features such as a video guide.



### **Roamer<sup>™</sup>** **Discovery at Everyturn**

*I used Roamer within the LOGO philosophy to create mathematical enrichment activities for the national Saudi program for gifted & talented children.*

Omar M.S. Hamed  
Mathematics Dept.  
King Saud University  
Riyadh, Saudi Arabia

*Roamer* is an educational technology robot. Teachers use *Roamer* to teach various subjects across the curriculum as well as to develop students' problem-solving skills. The robot helps educators teach difficult subject matter in a fun and engaging way, providing concrete experiences of abstract concepts. Students learn to discover, understand and assimilate complex ideas. The versatile, hands-on learning tool can be used in preschool, elementary, middle and high school in classrooms ranging from special education to gifted and talented to provide all students with meaningful educational experiences.

Valiant has created the Global *Roamer* Network to enable educators from around the world to share their tips and experiences in using *Roamer*. Under the SEROTA Project, the company is working with top universities including Rutgers, Northwestern, Johns Hopkins and California State to develop the next generation of educational robots. The project aims to produce a teaching aid based on strong educational values and practical teaching standards, which will result in better achievement scores.



*The two Inventa manuals should be standards for schools teaching mechanical concepts and structures. Fun and concise, the books explain simple machines in an easy, readable way. While my 5th grade students make the land yacht, they learn to use measurement skills to lay out the sail, the link strips and wooden dowels. We also use math to explain the many concepts of mechanical advantage.*

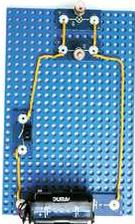
Rob Blonarowycz  
Technology Education  
Teacher  
Chichester Middle School  
Boothwyn, Pa

## **Inventa™** Creating the Future

*Inventa* is a design technology system capable of supporting science and technology projects in elementary, middle and high schools, particularly for pre-engineering work. It presents a sort of educational version of “Junkyard Wars,” demanding ingenuity and creativity from students.

*Inventa* consists of interlinking components that provide the strength and precision necessary to help make students’ ideas work. The system components include pulleys, gears, wheels, bearings, adaptors, tubing, strips, plastic and wood. Students can combine the components with “junk” materials such as soda cans and cereal boxes to create a multitude of structures and mechanisms. Following sound engineering principles, *Inventa* allows students to explore simple gear and pulley mechanisms, math and physics as well as develop problem-solving skills. All of the system components, as well as the supplemental “junk” items teachers can find around the school or house, are inexpensive, so *Inventa* materials can be consumable to provide students the opportunity to build and create over and over again.

Valiant spent more than six years in classrooms developing practical ways to implement design and build projects to meet the diverse range of experience and abilities of students and teachers. The result is the *Inventa* Workshop, a set of curriculum materials that uses design technology as a medium to improve student skills in math, science and language arts. The materials are flexible for use in regular classroom lessons, group projects and for summer and after-school programs.



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## **Tronix™**

A modular electronics system, *Tronix* allows students to explore the science of electricity and then apply that understanding in technology projects. Simple connections and plug in boards remove the need for soldering. The system is ideal for students aged 7-13.

The *Tronix* Electricity Starter Pack provides teachers with an economical way to begin an electricity unit in their classroom. The pack contains a baseboard, lampholders and lamps, 6V battery holder, slide switch, motor, motor mounting bracket, buzzer, 5m wire, and Teacher’s Guide



## **Other Products**

Valiant Technology, based in the United Kingdom, designs and sells several other products for the European educational market. The *SenSci® Data Logger* allows students to conduct science experiments in the field and instantaneously record light, sound, temperature, pressure, pH, humidity, oxygen levels, voltage,

*SenSci Data Logger was used to chart sea and air temps during the Borobudur Expedition, which recreated the ancient ship and trading route that helped spread Indonesian influence to Africa.*

current, motion, heart rate, and more. The large LCD screen, easy-to-use menu, multiple data ports, variety of information displays and accompanying software, provide an economical data logger for elementary through high school students. *Turtle™* is another robotic educational tool from Valiant that helps students visualize and learn mathematic concepts. *Quickstep* lets student explore industrial control. It is a freestanding, bit-by-bit controller that allows students to quickly program and test their projects. Valiant also develops accessories and control boxes to complement its product offerings.

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