

2012 High Tech Fair – Student Parent Night

Strategies to Boost Student Learning

We are counting on you to bring well-prepared students to the 2012 High Tech Fair!

Students and parents who have prepared for their visit to the 2012 High Tech Fair will be well ready to engage effectively with the interactive exhibits. Please plan to spend time with your child preparing, prior to the event.

QUICK FACTS ABOUT 2012 HIGH TECH FAIR, STUDENT/PARENT NIGHT

- This event is planned for students in grades 7-12, younger children are welcome but please concentrate your family time for middle and high school children
- Exhibitors have prepared demonstrations and interactions about applied science, technology, engineering and math (this is not a career fair)
- Concessions will be available, we ask that food be consumed at eating areas only
- Students must be accompanied by parents at all times during the High Tech Fair

Here are some quick tips to prepare for your visit

1. Ask your child which of the strands interests them the most and why
2. Access the exhibit descriptions and questions, encourage your child to answer the questions that have been posted prior to attending the fair
3. Make a plan to prioritize exhibits to visit and plan to participate in each exhibit for 10 minutes (HTF exhibitors have planned interactive demonstrations)
4. Encourage your child to craft some questions they might ask exhibitors

Sample questions:

- a. How will the technology demonstrated affect me at school or in my daily life?
- b. What immediate or long-term practical applications are a result of the exhibit?

The 2012 High Tech Fair exhibitors have posted questions <http://sdsa.org/programs/high-tech-fair/programs/high-tech-fair/2012/exhibit-description-prep-questions> for students to research prior to attending HTF. The purpose of these questions is for students to be informed about the exhibits, and are also prepared to be conversant with the academic vocabulary. HTF exhibitors have planned demonstrations to engage students in understanding their applied science and engineering.

The High Tech Fair exhibitors have been organized into the following strands:

Biotech / BioMedical	<i>The science of using living things, and components of living things, to produce goods and services. It involves manipulating and modifying organisms, often at the molecular level, to create new and practical applications for agriculture, medicine and industry.</i>
Clean Tech / Energy	<i>Clean Technology applies science and engineering solutions to three critical areas: reducing the consumption of energy and natural resources; reducing waste and harmful emissions; and harnessing renewable energy and materials for sustainable development.</i>
Conservation Environmental Science	<i>Focus on current and future conservation of our natural resources; the science and technology of sustaining our wildlife, forests, coastlines and oceans; and technological advances in farming that help better serve the needs of the public while protecting the environment and increasing output.</i>
Engineering / Aerospace	<i>Focus on the application of science to practical uses such as the design of structures, machines, and systems.</i>
Healthcare Technology	<i>Focus on the systems within which health is protected and maintained, including prevention and rehabilitation, emergency medicine, medical devices, and technology for monitoring the health of a patient remotely.</i>
Information & Communications Technology (ICT)	<i>Focus on highly specialized, complex technology, including computer applications and telecommunications.</i>
Robotics	<i>Focus on the technology associated with the design, fabrication, theory, and application of robots.</i>