

by Hollywood Hill PTA December 2014



iPads are here! Hollywood Hill received a Northshore Innovation Grant to purchase 4 iPad carts. Each cart contains enough iPads for one class to do a Project Lead the Way unit, so up to 4 classes can be using iPads at the same time.

Currently, Mrs Todd and teachers are working with a consultant from **Institute for Systems Biology** (ISB) to adapt our existing Foss science kits, to add rigor and relevance, and to ensure that all science lessons being taught this year work well with the upcoming Project Lead the Way modules.

Hollywood Hill was recently honored at the annual Institute for Systems Biology Valerie Logan luncheon, for last year's STEM work in the 4th grade. Mr Beebe temporarily resumed his role as our STEM leader and sat on a panel with Mrs Knapp and Mr Archuleta, along with Hollywood Hill Student Ben Dippie, to discuss our journey to incorporate STEM into our school.

Project Lead the Way

This month, all teachers (grades k-6) are finishing up their readiness training for PLTW, and learning about the iPad apps that are necessary for teaching PLTW. After the break, 3rd grade - 6th grade teachers will be completing the content training before beginning to teach the units this spring.

This spring, all students in grades 3 through 6 will be using the iPads to complete **one** module from **PLTW**. In future years, both modules will be completed.

3rd Grade Modules:

Stability and Motion: Science of Flight
Stability and Motion: Forces and Interaction

4th Grade Modules:

Energy: Collisions
Energy: Conservation

5th Grade Modules:

Robotics and Automation
Robotics and Automation Challenge

6th Grade Modules:

Stability and Motion: Science of Flight ~ The 6th grade lessons will be adapted from the 3rd grade lessons, and used to supplement the existing 6th grade Flight curriculum. By the time the current 3rd graders reach 6th grade, they will be in Junior High (because of grade reconfiguration), so no lesson will be repeated.



What about grades K-2? This spring, Mrs Todd will be ordering the PLTW curriculum for grades K-2, to be implemented next year in the lower grades, once those primary teachers complete their content training.

Kindergarten Modules:

Structure and Function: Exploring Design
Structure and Function: Pushes and Pulls



1st Grade Modules:

Light and Sound
Light: Observing the Sun, Moon and Stars

2nd Grade Modules:

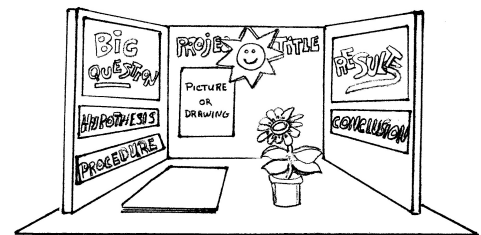
Materials Science: Properties of Matter
Materials Science: Form and Function

STEM PTA Enrichment Programs Winter 2014/15 In addition to our ongoing enrichment programs such as Smart with Art, Winter After School Sports, Book Club and Math Team, we also have some STEM-based enrichment programs:

- **Design with Tech** Students will develop skills in Game Design. Curriculum designed to meet each participants' artistic and technological levels. Open to students in 3rd - 6th grades. Outside vendor, program fees apply. Registration info coming soon. Scholarships available.
- **Lego Play-Well Engineering Challenge** Create a massive machine in the style of a Rube-Goldberg invention. Learn how to build a variety of motorized devices such as an air compressor, scissor lift invention, and a marble moving crankshaft in this advanced engineering camp. Then, collaborate in small groups with other engineers to accomplish large-scale missions! Open to students in 3rd - 6th grades. Outside vendor, program fees apply. Registration info coming soon. Scholarships available. *Pre-engineering Lego Class will be available for grades K-2 in the spring.*
- **Boeing Science Club** will be returning to Hollywood Hill this spring. This Boeing afterschool STEM program promotes hands-on STEM (science, technology, engineering and mathematics) learning experiences in an afterschool environment. Using activities designed by local teachers, Boeing engineers volunteer their time to lead activities that reinforce STEM concepts to students in gr 5-6.

STEM FAIR March 20th, 2014

This year promises to be another hands on evening for the whole family. All students in all grades encouraged to participate. Save the date and start thinking of potential topics now. Details coming home soon.



FROM THE PTA The HH PTA is excited for the implementation of the STEM program this spring, as it is a goal we have been working towards for the the past year and a half. The \$33,000 we have budgeted for STEM this year will be able to fund the teacher training and curriculum purchases this year. We are hoping to also be able to give financial support, at a smaller scale, to the STEM program in future years so the program can continue to grow.

Don't forget to download **Type to Learn** from the NSD website and make sure all students in grades 2+ are practicing at home, to prepare for Grades 3-6's Smarter Balanced computerized standardized tests this spring. Sign-in information for Type to Learn is available from your student's teacher. The school code is 101558. There's also a link to **Dance Mat typing** on the computer lab page of HHE's website, which is a good introduction to touch-typing for younger children.