

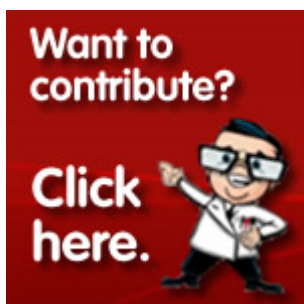


Science For America eNewsletter - Project Based Learning Edition

You are getting this email as a valued member of the Science For America community. If you wish to change your subscription details, please use the link at the end of this email.

What you'll find in this issue:

- Science Engine - The search engine for science links, videos and projects
- Problem Solving Strategies: See-Think-Do-Check
- Science web site profile: Intel Project Based Learning
- Teacher Toolbox: Surface Tension Penny Lab



Science Engine Released

Science for America is proud to announce Science Engine. Our Science Engine service gathers information published by different sources and organizes it together under a common search interface. This version is just released, so please keep that in mind as we continue to add more resources. Feel free to provide suggestions to how we can make it better. [Click here](#) to go to Science Engine now.

And remember, we are always looking for volunteers. [Click here](#) to become a content expert and help build our database of great science resources for Science Engine.

Problem-Solving Strategies: See-Think-Do-Check

Problem solving is a critical skill to develop within all science students. The challenge with problem solving is it is difficult to learn, and difficult to teach. But it doesn't have to be. The See-Think-Do-Check strategy breaks down the process of word problems into four manageable pieces:

SEE

What are the KNOWN VARIABLES?
What are the UNKNOWN VARIABLES?

THINK

What FORMULAS do you know which relate the KNOWN VARIABLES to the UNKNOWN VARIABLES?
(Use your equation sheet)

DO

Work the problem. Rearrange the formula if necessary. Substitute values for the variables. Pay close attention to the units (DON'T LOOSE THEM!).

CHECK

Does the answer make sense?

Check to make sure you have the correct units.

Mention See-Think-Do-Check in your classroom every day, and even the most challenged science student will be able to tackle word problems with confidence.

Web Site Profile: Intel's Project-Based Units to Engage Students

Project-based learning holds the key to incorporating critical skills into your science curriculum, including information and computer technology, collaboration, writing skills, and critical thinking. What's more, project based learning can help you incorporate these skills seamlessly. Examine technology-rich unit plans from Intel Education by [clicking here](#). You can use most of these plans right away, or as models for your own planning. They are some of the most well thought-out projects we've found!

Teacher Toolbox : Surface Tension Penny Lab

Cohesion and surface tension can be challenging concepts for students. Use this lab handout to introduce the topic in a quick and easy hands-on experiment. The document is a MS Word document that can be downloaded by [clicking here](#).

Thanks for reading...

We hope your school year is off to a great start! If you have anything you'd like to share, please don't hesitate to [contact us](#).

Rock steady,



Bret Wagner
Executive Director
Science For America