

## Selected Internet Resources for Physical Science PD

### 1) **The Big Picture**

There are a number of websites designed help teachers search for specific activities, some of which are listed on CRS's website at <http://www.crscience.org/teacher/metasites.html>. We have also created lists of links to sites and pages that have a variety of activities and background appropriate for students on the topics at each grade level, which you can find at <http://www.crscience.org/teacher/pswebsites.html>.

The following website is specifically crafted to help teachers learn about and develop content knowledge as well as teaching approaches. Search the Themes for the topic you're interested in, and follow links to develop content understanding on specific concepts:

- eMINTS – “Professional Development for Educators by Educators” – search themed units for links and resources: <http://www.emints.org/ethemes/index.shtml>

An important resource for all teachers serious about elementary science is the Annenberg Project's wonderful collection of FREE video workshops that you can download and watch at your convenience on your computer. This is where to find the “Private Universe” series about overcoming student misconceptions, wonderful footage of real Inquiry happening in classrooms, as well as the following examples focused on K-5 physical science topics:

- Annenberg's Essential Science for Teachers: Physical Science K-5 – Video on Demand – <http://www.learner.org/resources/series200.html>
- Annenberg's Science in Action – Video on Demand – Focus on Energy (2<sup>nd</sup> – 4<sup>th</sup>) <http://www.learner.org/resources/series160.html>

If you're looking for a concise on-line “textbook” covering many basic concepts of physical science at a fairly high level (but not much math!) try this one:

- “#1 Site for Learning Science: Physics” - <http://home.att.net/~cat4a/index.htm>

Don't forget about the virtues of Wikipedia for exploring basic concepts and links to the specific areas you're interested in exploring: <http://www.wikipedia.org/>.

Finally, for tips and tricks on how to more effectively (and efficiently) use Google in your education searches, visit <http://www.googleguide.com>.

### 2) **Grade Specific Background Information on the Web**

Here is a short list of sites that treat the specific grade-level concepts in the CA science standards at a basic level. Most are NOT specifically appropriate for students at that grade level to read!

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States of Water - <http://www.nyu.edu/pages/mathmol/textbook/slg.html>

1<sup>st</sup>

States of Matter - <http://www.school-for-champions.com/science/matterstates.htm>

2<sup>nd</sup>

Simple Machines Glossary - <http://www.edheads.org/activities/simple-machines/glossary.htm>

Fear of Physics - <http://www.fearofphysics.com/index1.html>

The Science of Sound - <http://www.fi.edu/fellows/fellow2/apr99/soundindex.html>

Thinkquest: Sound - <http://library.thinkquest.org/11924/sound.html>

3<sup>rd</sup>

EnergyQuest - <http://www.energyquest.ca.gov/story/index.html>

States of Matter -

<http://curriculum.calstatela.edu/courses/builders/lessons/less/les2/states.html>

Science of Light - <http://www.learner.org/teacherslab/science/light/>

Light and Color - <http://library.thinkquest.org/11924/light.html>

4<sup>th</sup>

Electricity and Magnetism - <http://library.thinkquest.org/11924/electricity.html>

5<sup>th</sup>

Atoms and Atomic Structure - [http://www.chem4kids.com/files/atom\\_intro.html](http://www.chem4kids.com/files/atom_intro.html)

Periodic Table - [http://www.chem4kids.com/files/elem\\_intro.html](http://www.chem4kids.com/files/elem_intro.html)