



**Portal for Resources In Science and Math**

Your Guide to Educational Web Resources

[Recommended Sites](#)

[Clearinghouses and Regional Labs](#)

# USER'S GUIDE



## **Your Guide to Educational Web Resources** **[www.systemicinitiatives.net/prism](http://www.systemicinitiatives.net/prism)**

PRISM is a one-stop science, math, and technology (SMT) education portal that provides easy access to the most popular and effective web-based and printed SMT education resources. The database includes abstracts that briefly describe each of the selected resources, as well as printable URLs and "hot links" for immediate and direct access to each resource.

PRISM is primarily designed for K-12 district and school mathematics, science, and technology educators who work directly and indirectly with classroom teachers. PRISM can save users time and frustration by filtering for the most useful information from among the thousands of available resources accessible through Google and other web-based search engines.

The PRISM database is organized across two key areas: recommended individual resources (e.g., a discrete web page or document) and clearinghouse and education lab resources (e.g., the ERIC Clearinghouse).

### ***Recommended Resources***

Recommended Resources have been carefully screened by content experts and organized in seven high performance topic areas. Selecting any of the key topic areas will provide a list of subtopics, where appropriate, and a database report of the recommended resources with brief abstract descriptions and "hot links" to the actual websites.

### ***Clearinghouse and Education Lab Resources***

Clearinghouse and Education Lab Resources provide an overview, tips for navigation, a site map, and "hot links" to ten SMT megasites that include resources across all (or most) of the seven high performance topic areas.

### ***Disclaimer***

This tool was developed by The McKenzie Group with funding from the National Science Foundation through contract # EHR 98-027. The information contained herein, including those resources listed directly or linked elsewhere, does not reflect or imply official views, opinions, or any product or content endorsement by NSF or TMG.

# Finding Resources in PRISM

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# PRISM



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**1.** A database of online resources organized by subject area and recommended by a panel of experts

**2.** A guide for finding resources in educational clearinghouses and regional laboratories

Click on the above links to access the online tools

**PRISM contains two tools for finding educational resources**

# Finding Selected Sites in PRISM



Portal for Resources In Science and Math

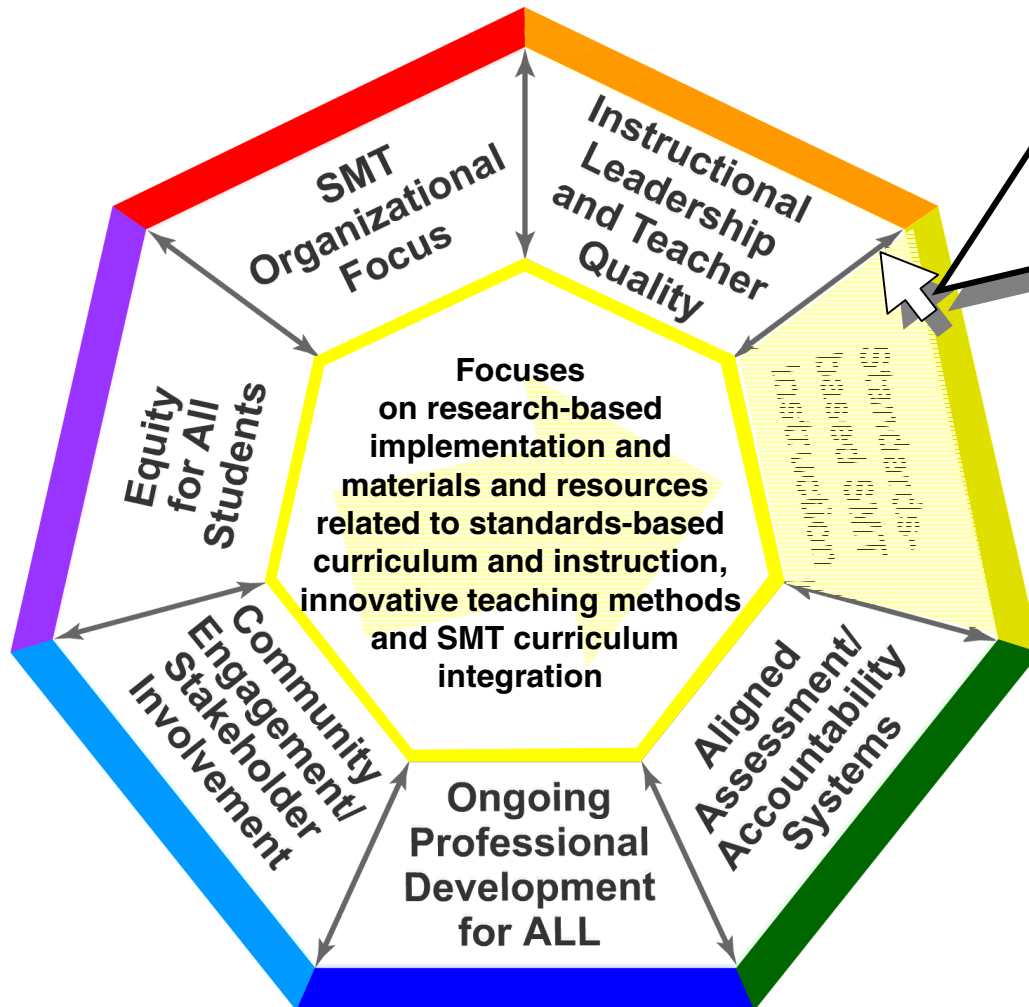
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- Move the cursor over a topic for additional information
- Click on the topic to obtain a menu of subtopics



## Standards-Based SMT Instruction

This section focuses on research-based implementation and materials and resources related to standards-based curriculum and instruction, innovative teaching methods and SMT curriculum integration

### **Topics include:**

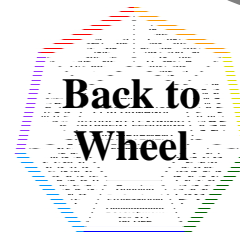
#### Standards Based Curriculum & Instruction

National/State Alignment  
Instructional Materials  
K-12 Math Programs  
K-12 Science Programs  
General Resources

Innovative Teaching Methods  
“Real World Situations”  
Inquiry Based Learning  
Special Needs Students  
General Resources

SMT Curriculum Integration  
Teaching Across Disciplines  
Teaching Reading Strategies  
Integrating Technology as  
Instructional Tools  
General Resources

- **This screen allows users to see a list of topics and subtopics**
- **Click on a subtopic to view a list of resources. For example, clicking on “National/State Alignment” opens the following page.**





**Subject: Standards-based SMT Instruction**

**Topic: Standards-based C&I**

**Subtopic: National/State Alignment**

[Click here to go back to the wheel](#)

10 records found

**After reading abstracts of recommended resources, users can go directly to online resources.**

**Title:** AAAS: Aligning Assessment with Learning Goals

**URL:** <http://www.enc.org/topics/assessment/align/document.shtm?input=FOC-001580-inc>

**Type of Resource:** Research

**Abstract:** This AAAS document discusses the lack of guidance in creating assessments that support new standards in Science and Mathematics. It describes a AAAS project funded by NSF for 2.4 million to produce a guide on how to evaluate the alignment of assessment to specific learning goals. The project will develop criteria and an analysis procedure for judging the alignment of assessment to learning goals. In addition it will produce case studies to illustrate the use of criteria to revise existing assessment tasks and create new ones.

**Title:** Aligning and Articulating Standards Across the Mathematics Curriculum

**URL:** <http://www.ncrel.org/sdrs/areas/issues/content/contareas/math/ma400.htm>

**Type of Resource:** Research

**Abstract:** This NCREL webpage addresses numerous issues surrounding the establishment of standardized Mathematics curricula. The page includes a discussion of NCTM's Curriculum and Evaluation Standards for School Mathematics (1989), interviews with teachers and administrators, roles for students, teachers, administrators, and families, and links to additional resources. New information about the learning process should guide schools as they move toward a more coherent math curriculum. For example, a growing research base supports the idea that students learn mathematical concepts best when the concepts are presented gradually over time. Educators must be sure to provide the conceptual base and experiences needed so that students will be able to understand new and more difficult academic materials.

**Title:** Aligning Content Standards Curriculum Standards and Assessment

**URL:** [http://www.wcer.wisc.edu/ccvi/pubs/publication/archive/ReformTalk/Year\\_1998/July\\_98\\_Reform\\_Talk\\_7.html](http://www.wcer.wisc.edu/ccvi/pubs/publication/archive/ReformTalk/Year_1998/July_98_Reform_Talk_7.html)

**Type of Resource:** Research

**Abstract:** This document from the University of Wisconsin provides the basics about aligning curriculum and standards and discusses some of the opportunities and challenges faced in effective implementation. The article is very brief and its elaboration of the complexity of alignment issues is limited.

**Title:** AskERIC lesson plans- science

**URL:** <http://www.askeric.org/cgi-bin/lessons.cgi/Science>

**Type of Resource:** Tools for Practitioners

**Abstract:** This page houses ERIC's lesson plans for science, which include agriculture, botany, entomology, history, geography, instructional issues, plus a variety of other topics. Under each topic lesson plans are geared for specific age levels.

# Searching Clearinghouses and Regional Labs



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## Clearinghouses and Regional Lab Sites

Subject Area		Megasite						
		SMT Organizational Focus	Instructional Leadership and Teacher Quality	Standards-Based SMT Instruction	Aligned Assessment/Accountability Systems	Ongoing Professional Development for All	Community Engagement/Stakeholder Engagement	Equity for All Students
CLEARINGHOUSES	<a href="#">Eisenhower National Clearinghouse (ENC)</a>							
	<a href="#">Educational Resources Information Center (ERIC)</a>							
	<a href="#">Teacher Education Materials Project (TE-MAT)</a>							
REGIONAL LABS	<a href="#">Appalachia Educational Laboratory (AEL)</a>							
	<a href="#">Mid-Continent Research for Education and Learning (McREL)</a>							
	<a href="#">North Central Regional Education Laboratory (NCREL)</a>							
	<a href="#">Northwest Regional Education Laboratory (NWREL)</a>							
	<a href="#">Southwest Educational Development Laboratory (SEDL)</a>							
	<a href="#">WestEd</a>							

Click on a megasite to read a detailed review of the site, a users guide for the site and a link to access the megasite.

Amount of Information



Least



Most





## Clearinghouses and Regional Lab Sites

Megasite	Subject Area	SMT Organizational Focus	Instructional Leadership and Teacher Quality	Standards-Based SMT Instruction	Aligned Assessment/Accountability Systems	Ongoing Professional Development for All	Community Engagement Stakeholder Engagement	Equity for Students
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	<a href="#">Northwest Regional Education Laboratory (NWREL)</a>							
	<a href="#">Southwest Educational Development Laboratory (SEDL)</a>							
	<a href="#">WestEd</a>							

Click on a subject area to view a list of all resources from the megasites in that subject area.

Amount of Information



Least



Most





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Subject Area Megasite		SMT Organizational Focus	Instructional Leadership and Teacher Quality	Standards-Based SMT Instruction	Aligned Assessment/Accountability Systems	Ongoing Professional Development for All	Community Engagement/Stakeholder Engagement	Equity for All Students
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	<a href="#">Southwest Educational Development Laboratory (SEDL)</a>							
	<a href="#">WestEd</a>							

Click on a scale to view all content from a specific megasite in a specific subject area.

Amount of Information



Least



Most





## ***Acknowledgements***

The McKenzie Group would like to acknowledge and express gratitude to the following persons for their contributions to the development of this product.

### **Project Design and Management**

Joseph Harris

### **Content Experts**

Bernard Charles  
Phyllis Cohen  
Richard Curci  
Yolanda George  
Fred Johnson  
Susan Mundry  
Carol Muscara  
Maria Santos

### **Researchers**

Aliette Frank  
Dabney Ingram  
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### **Web & Database Development**

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