

Choosing and Measuring Metrics

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Solvents and Processes

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The Education/Outreach should...

Be an integral part of the Center

Be an integral part of the campuses and of the education systems

Leverage resources with other people and programs

Make an impact and maintain an identity



Metrics

“Numbers are the things you quote so you can get through the door to tell the anecdotes”

Metrics

Planning - manpower, budgeting, impact

Formative - is the project on schedule and being done the right way?

Summative - documenting success and leading to the next project

Objectives (Work Products)

1: Educational Web site

2: Learning Modules

High school

Middle School

3: Faculty/Student Involvement



Work Product

Timeline for Answering

Measurement Questions

Measurement Indicators

Work Product Verification

Example - Educational Web site

By August 2000 (ongoing)

Is the web site kept up to date?

Monthly checks

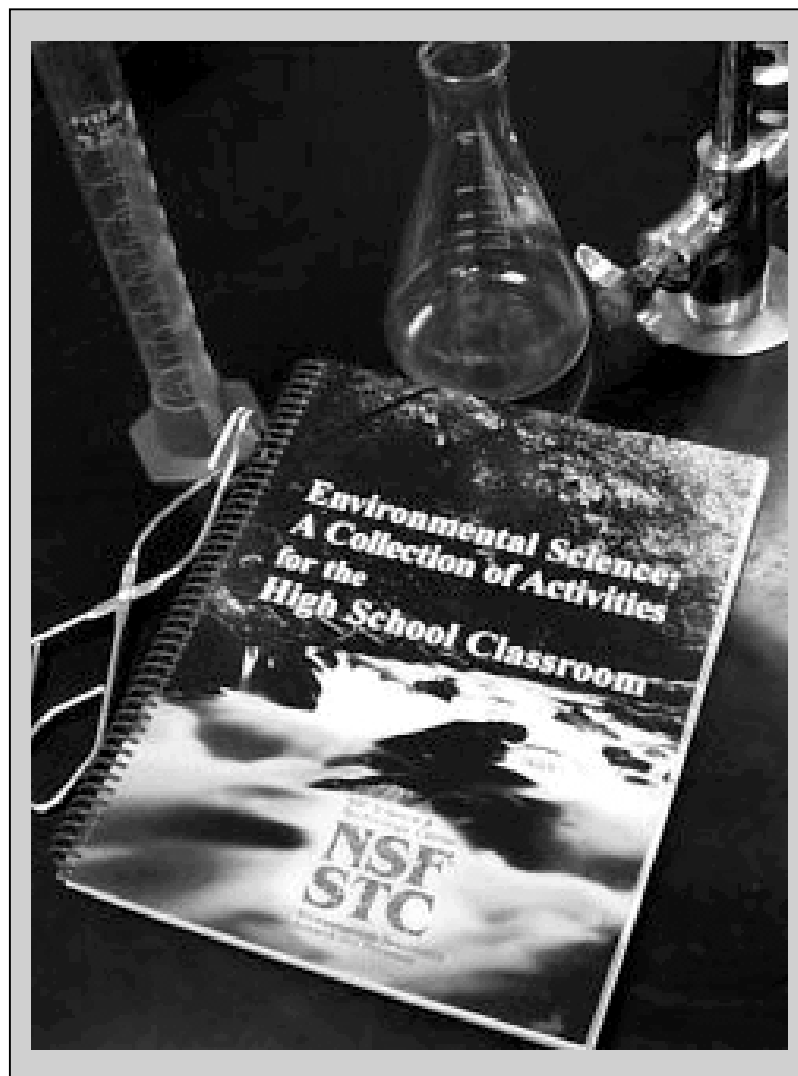
Web site is being checked and updated monthly.

Admin. Repts. added in Jan 2002.

List of participation of Center members posted in Mar 2002.



Example -High School Environmental Science Book



NSF Science &
Technology Center
**NSF
STC**
Environmentally Responsible
Solvents and Processes

Book Questions

Are the activities aligned with the NC and TX standard course of study?

Expert determination by Eisenhower Consortium @SERVE



Book Questions

Was the booklet available for distribution by the projected date?

Date booklet received from printer.



Book Questions

Have the books been distributed for use in K-12 schools?

Dates of distribution of books to Center universities, individual schools and other distribution points.



Book Questions

Have the activity booklets been used in the K-12 schools?

Representative sampling of schools in distribution areas.



Book Questions

Are workshops being conducted based on the activities in the books?

Workshop log and workshop evaluations.

Nuggets



Nuggets

By June 2001, 20 labs had been identified and correlated with SCOS for NC and TX. Labs were reviewed by four exemplary middle school teachers on June 22. Plans were in place by June 2001 for production and distribution of modules, and an evaluation form had been prepared.



Nuggets

As of Aug 2000, approximately 40 Center members had been involved in K-12 outreach. As of Oct 2001, an additional 17 Center members had become involved. As of Sep 2002, the total number of Center members involved was 70.



Nuggets

As of Sep 2002, ~4000 K-12 teachers had been reached in NC and TX. Assuming 130 students per educator, ~500,000 K-12 students had been reached in NC and TX.



Metrics

“If you are not keeping score, you are only practicing.” - Vince Lombardi

