

About Us

Heading up the Mobile Science Lab-LA venture is Michael Batie. Mr. Batie brings over 40 years experience both in the workplace and the classroom in the math, science, engineering, and technology fields. (<http://www.michaelbatie.com>).

Participating Schools

View Park Prep High School
Frederick Douglass Academy High School

Contact

<http://www.msl-la.com>

For more information on availability and pricing please contact;

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Mobile Science Labs

“Delivering the Best Laboratory Experience to Your High School”

Chemistry



Physics



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Mobile Science Labs Objectives

The three objectives of Mobile Science Labs are to:

(1) provide a hands-on inquiry based lab experience with modern classroom equipment and support for implementation of the physics and chemistry laboratory curricula.

(2) develop and utilize laboratory curricula which address the state's goals for learning.

(3) implement professional development workshops for high school chemistry and physics teachers.

Service Components

Mobile Science Labs (MSL) is a support program that delivers the necessary materials, supplies, equipment and support personnel for the effective teaching of High School chemistry and physics laboratory activities.

During each visit the driver delivers to the requesting teacher the equipment and materials for the experiment(s) to be conducted that day. The Van driver is available to assist the teacher if so requested, but they do NOT replace the teacher.

MSL vans travel the region to provide in-class support for teachers through the use of a Mobile Instrumentation Van. The van carries all the materials, supplies and equipment needed by teachers to carry out the chemistry or physics laboratory activities. The van is driven by a trained science professional.



Background

Mobile Science Labs are modeled on the highly successful Chemistry and Physics Van Program pioneered by Professors Mel Sabella and Michael Mimnaugh of Chicago State University.

During the past eleven years the Chemistry Van Program has been cited by various organizations as an exemplary model for national science education reform initiatives.

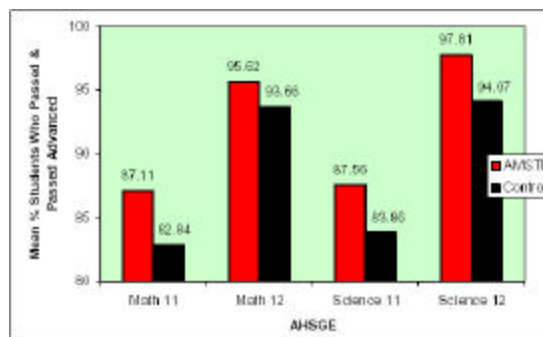
The program was selected for the inclusion in the Guide to Math and Science Reform and the Urban Systemic Initiative Directory of Best Practices.

MSL also makes use of lessons learned and resources from a similar program that has been successfully implemented across Alabama (<http://www.amsti.org>).



The chart below presents results from the Alabama High School Graduation Exam for Math Science. The results show significant increases in passage rates for high school students in Alabama.

2005 AMSTI Mean Percentages of Students Who Passed and Passed Advanced on the 2006 AHSGE: Math & Science



Partial Listing of Available Chemistry Lab Activities

1. Determining the volume of an object by displacement and by measuring
2. Acids, bases and indicators
3. Boiling point determination
4. Melting point determination
5. Determining the specific heat of aluminum
6. Identifying compounds by their flame emission spectra
7. Gay-Lussac's P vs. T relationship
8. LeChatelier's Principle
9. Synthesis and properties of polymers
10. Advanced Topics



All laboratory exercises incorporate the use of modern chemistry and physics equipment and instrumentation. Labs can be conducted with minimal laboratory facilities

Partial Listing of Available Physics Lab Activities

1. Introduction to Lab Procedures
2. Newton's Laws (1st, 2nd, and 3rd)
3. Hooke's Law
4. Heat and Temperature
5. Changes of Phase
6. Wave Properties of Light
7. Sound
8. Magnets and Motors
9. Charge and Electric Force
10. Advanced Topics

